



# Smithsonian

*FY 2005 Budget Justification to OMB  
Volume II  
Appendix  
October 2003*

ADMINISTRATIVELY CONFIDENTIAL

*Information not to be released until after the President's Budget is submitted to the Congress in 2004*



**Smithsonian Institution**  
**Fiscal Year 2005 Budget Request to OMB**  
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Enterprise Resource Planning System  
Managed Information Technology Infrastructure (including telephone modernization)  
Smithsonian Astrophysical Observatory Scientific Computing  
Art Collections Information System (ArtCIS)  
National Museum of American History Collections Information System



National Museum of the American Indian Collections Information  
 System  
 National Air and Space Museum Collections Information System  
 National Postal Museum Collections Information System  
 National Museum of Natural History Research & Collections Information  
 System (RCIS)  
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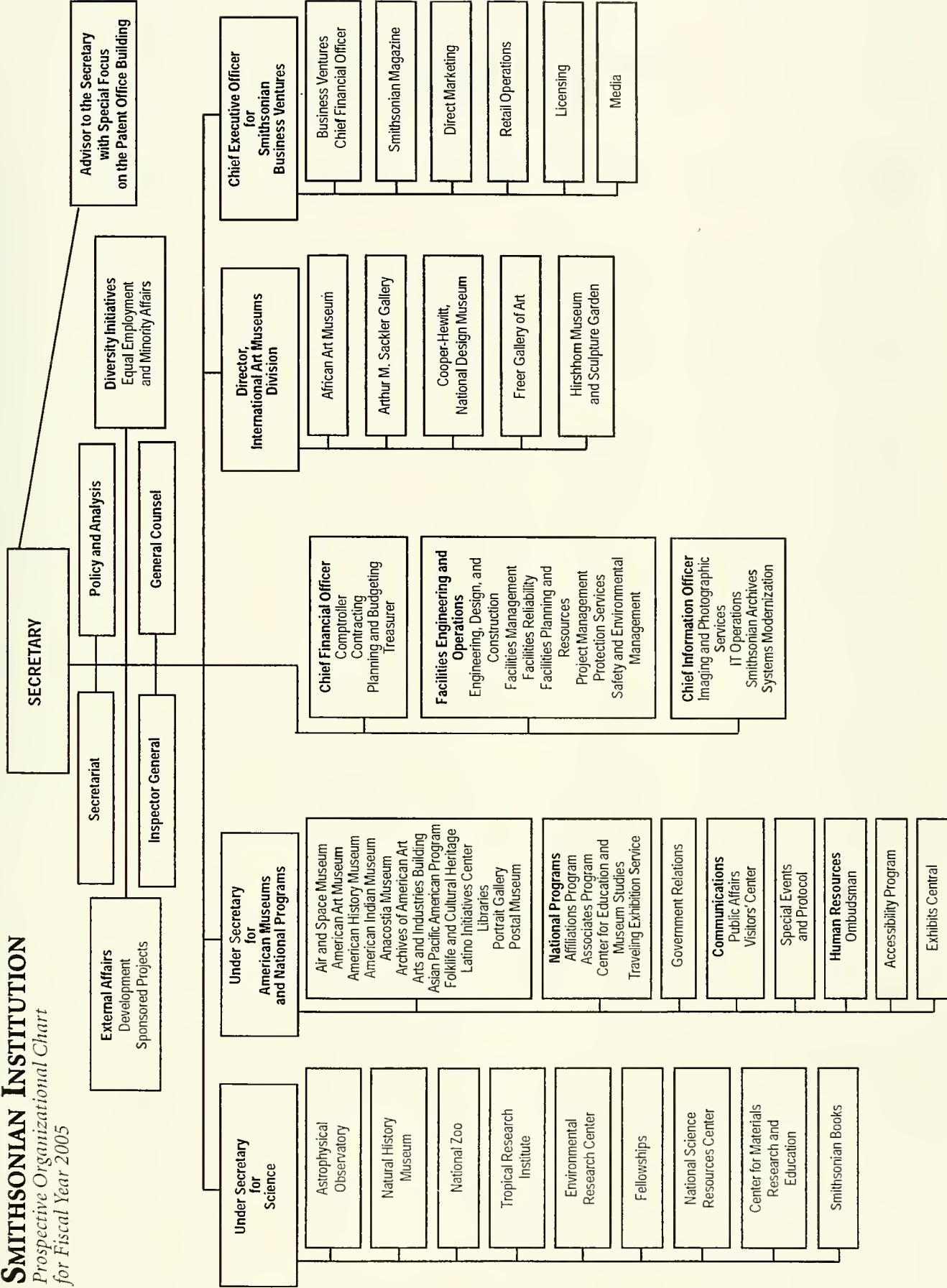
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# SMITHSONIAN INSTITUTION

Prospective Organizational Chart  
for Fiscal Year 2005



Note: Many office names have been abbreviated to conserve space. Please check with an individual unit to confirm its official name.





# VISITS TO THE SMITHSONIAN

## FY 1998–FY 2002

| <u>MUSEUM</u>                                  | <u>FY 1998</u>    | <u>FY 1999</u>    | <u>FY 2000</u>    | <u>FY 2001</u>    | <u>FY 2002</u>    |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>MALL</b>                                    |                   |                   |                   |                   |                   |
| SI Castle                                      | 1,890,838         | 1,854,903         | 1,836,963         | 1,857,990         | 1,611,325         |
| A&I Building                                   | 875,853           | 742,415           | 868,171           | 1,167,490         | 938,107           |
| Natural History                                | 6,476,700         | 7,076,380         | 9,489,272         | 9,100,091         | 6,049,472         |
| Air and<br>Space/Silver Hill                   | 10,238,890        | 9,410,872         | 9,008,608         | 9,831,447         | 7,568,384         |
| Freer Gallery                                  | 330,104           | 364,305           | 347,607           | 306,065           | 392,380           |
| Sackler Gallery                                | 207,653           | 213,276           | 224,151           | 192,296           | 212,197           |
| African Art                                    | 232,939           | 245,786           | 234,295           | 214,775           | 179,789           |
| Ripley Center                                  | 300,147           | 333,537           | 502,334           | 555,183           | 267,011           |
| American History                               | 5,579,039         | 5,680,001         | 6,261,715         | 5,798,993         | 3,994,498         |
| Hirshhorn                                      | 829,782           | 795,646           | 951,570           | 731,453           | 687,118           |
| <b>OFF MALL</b>                                |                   |                   |                   |                   |                   |
| American Art/<br>Portrait Gallery <sup>1</sup> | 550,087           | 362,854           | 176,881           | 0                 | 0                 |
| Renwick  | 130,700           | 125,910           | 146,071           | 149,777           | 141,018           |
| Anacostia <sup>2</sup>                         | 26,100            | 25,794            | 3,302             | 0                 | 27,339            |
| Cooper-Hewitt                                  | 131,949           | 108,579           | 150,786           | 136,329           | 142,196           |
| American Indian <sup>3</sup>                   | 615,697           | 587,546           | 498,316           | 413,470           | 316,763           |
| National Zoo                                   | 2,800,000         | 2,682,283         | 2,360,876         | 2,807,353         | 2,162,500         |
| Postal   | 423,760           | 461,743           | 450,483           | 400,478           | 317,155           |
| <b>TOTAL</b>                                   | <b>31,640,238</b> | <b>31,071,830</b> | <b>33,511,401</b> | <b>33,663,190</b> | <b>25,007,252</b> |

<sup>1</sup> Closed to the public January 2000 through present.

<sup>2</sup> Closed to the public December 1996 through January 1998, September 1998, and December 1999 through February, 2002.

<sup>3</sup> Includes the George Gustav Heye Center, which opened in 1994, and the Cultural Resources Center, which opened in April 2000.



**SMITHSONIAN INSTITUTION**

**Facilities Capital Program**

**Detail of**

**FY 2004 - FY 2009 Program**

**FY 2005 OMB Request**

Prepared by the  
Office Of Facilities Engineering and Operations

**September 8, 2003**



# Definitions

## FACILITIES CAPITAL PROGRAM \*

### REVITALIZATION

Revitalization activities correct extensive and serious deficiencies, materially extend service life, and often add capital value.

#### **Major Projects - MP**

Projects in this category are generally "whole house" renovations of existing buildings to replace major building systems and equipment, to extend service life and add capital value. Also includes modernization and upgrade work to incorporate new codes and standards. Most projects in this category will exceed \$5 million in total cost, and will be identified and described separately in budget submissions.

#### **Other Revitalization Projects - OR**

Projects in this category are smaller in scale than major projects, usually involving single building systems or pieces of equipment. Includes the following kinds of work:

##### **General Repairs**

Unscheduled but essential revitalization projects that cannot be anticipated specifically in advance or that do not fit into any one discrete category. Also includes staff costs for contract supervision and administration for projects in the Other Revitalization category.

##### **Facade, Roof, and Terrace Repairs**

Exterior repair and replacement of building envelopes to prevent major structural and interior damage and deterioration due to age, water intrusion, and weathering.

##### **Fire Detection and Suppression Projects**

Fire protection and safety measures meeting today's standards with state-of-the-art technology; includes installation of detection systems such as smoke alarms, suppression systems such as sprinklers, and architectural modifications to create fire zones by installing fire walls and doors.

##### **Access, Safety, and Security Projects**

Projects required to ensure access to facilities for persons with disabilities, improve environmental conditions for the health and safety of visitors and staff, and correct facility conditions that threaten the security of the National Collections.

##### **Utility System Repairs**

Capital repairs, replacement and upgrades to the heating, ventilating, and air conditioning (HVAC) systems and plumbing, electrical, and communications systems to ensure reliable and energy-efficient operation of utility systems.

##### **Alterations and Modifications**

Changes, improvements or minor additions to existing space to maintain the vitality and operating effectiveness of programmatic activities. Individual projects cost less than \$1 million and have little or no impact on facility operating costs.

### CONSTRUCTION - CON

Construction or acquisition (other than by lease) of additional physical plant assets, and renovation of newly acquired facilities to ready them for use. Projects in this category will be individual line items in the budget request.

### FACILITIES PLANNING AND DESIGN - FPD

Identification and analysis of long-range revitalization and expansion needs, preparation of master plans, and design of specific capital program projects.

\* NOTE: Routine maintenance and repair work is no longer included in the Capital Program.



SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM

Program by Building

\$(000)s

| Campus                       | Type | Project   | FY04 | FY05   | FY06  | FY07   | FY08   | FY09   | Outyears | FY04-FY12<br>Total |
|------------------------------|------|---|------|--------|-------|--------|--------|--------|----------|--------------------|
| Arts and Industries Building |      |   |      |        |       |        |        |        |          |                    |
| DC - Mall                    | FPD  | Design  | 0    | 5,000  | 0     | 0      | 0      | 0      | 0        | 5,000              |
| DC - Mall                    | MR   | Close Building and Relocate Staff and Collections         | 0    | 26,400 | 0     | 0      | 0      | 0      | 0        | 26,400             |
| DC - Mall                    | MR   | Consolidate Staff & Collections ABOVE THE LINE REQUEST    | 0    | 7,372  | 0     | 0      | 0      | 0      | 0        | 7,372              |
| DC - Mall                    | MR   | Restore Arts & Industries Building                        | 0    | 0      | 0     | 30,000 | 39,000 | 39,000 | 74,000   | 182,000            |
| Subtotal: AIB                |      |   | 0    | 38,772 | 0     | 30,000 | 39,000 | 39,000 | 74,000   | 220,772            |
| Anacostia Museum             |      |   |      |        |       |        |        |        |          |                    |
| DC - Anacostia               | OR   | Install Fence, Gate and Guard Booth                       | 0    | 0      | 0     | 0      | 0      | 0      | 1,000    | 1,000              |
| Subtotal: AM                 |      |   | 0    | 0      | 0     | 0      | 0      | 0      | 1,000    | 1,000              |
| Cooper Hewitt Museum         |      |   |      |        |       |        |        |        |          |                    |
| New York, NY                 | OR   | Upgrade Mansion Electric Distribution & Exterior Lighting | 0    | 0      | 750   | 750    | 750    | 750    | 0        | 3,000              |
| New York, NY                 | OR   | Replace Mansion Boilers                                   | 0    | 0      | 260   | 0      | 0      | 0      | 0        | 260                |
| New York, NY                 | OR   | Upgrade Collection Storage and Perimeter Security         | 0    | 0      | 0     | 0      | 0      | 250    | 0        | 250                |
| New York, NY                 | OR   | Stabilize Mansion Fence                                   | 0    | 0      | 0     | 0      | 0      | 0      | 600      | 600                |
| New York, NY                 | OR   | Stabilize Garden Stairwalls                               | 0    | 0      | 0     | 0      | 0      | 0      | 900      | 900                |
| New York, NY                 | OR   | Stabilize Mansion Sidewalks                               | 0    | 0      | 0     | 0      | 0      | 0      | 450      | 450                |
| New York, NY                 | OR   | Complete Miller-Fox Renovation                            | 0    | 0      | 0     | 0      | 1,300  | 0      | 0        | 1,300              |
| Subtotal: CHM                |      |   | 0    | 0      | 1,010 | 750    | 2,050  | 1,000  | 1,950    | 6,760              |
| Freer Gallery of Art         |      |   |      |        |       |        |        |        |          |                    |
| DC - Mall                    | FPD  | Design Replace/Restore Roof Exterior                      | 0    | 0      | 0     | 0      | 1,000  | 0      | 0        | 1,000              |
| DC - Mall                    | MR   | Replace/Restore Roof Exterior                             | 0    | 0      | 0     | 0      | 0      | 0      | 10,000   | 10,000             |
| DC - Mall                    | OR   | Repair Utility System                                     | 0    | 0      | 0     | 500    | 0      | 0      | 0        | 500                |
| DC - Mall                    | OR   | Replace Gallery Lighting Systems                          | 0    | 0      | 0     | 0      | 0      | 0      | 350      | 350                |
| DC - Mall                    | OR   | Correct Courtyard Window & Door Condensation              | 0    | 0      | 0     | 0      | 0      | 150    | 0        | 150                |
| DC - Mall                    | OR   | Upgrade Accessible Entrance & Corridor                    | 0    | 0      | 0     | 0      | 0      | 600    | 0        | 600                |
| Subtotal: FGA                |      |   | 0    | 0      | 0     | 500    | 1,000  | 750    | 10,350   | 12,600             |





# SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM

## Program by Building

\$(000)s

| <i>Campus</i>                                | <i>Type</i> | <i>Project</i>                                       | <i>FY04</i> | <i>FY05</i> | <i>FY06</i> | <i>FY07</i> | <i>FY08</i> | <i>FY09</i> | <i>Outyears</i> | <i>FY04-FY12</i><br><i>Total</i> |
|--|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|----------------------------------|
| <b>Hirshhorn Museum and Sculpture Garden</b> |             |  |             |             |             |             |             |             |                 |                                  |
| DC - Mall                                    | FPD         | Design Restore & Waterproof Plaza & Foundation Walls | 0           | 0           | 0           | 0           | 2,000       | 0           | 0               | 2,000                            |
| DC - Mall                                    | MR          | Restore & Waterproof Plaza & Foundation Walls        | 0           | 0           | 0           | 0           | 0           | 0           | 20,000          | 20,000                           |
| DC - Mall                                    | OR          | Improve Mall Master Raceway                          | 0           | 0           | 0           | 0           | 0           | 0           | 300             | 300                              |
| DC - Mall                                    | OR          | Modernize Security System                            | 0           | 0           | 0           | 0           | 0           | 550         | 0               | 550                              |
| DC - Mall                                    | OR          | Replace Loading Dock Retaining Walls                 | 0           | 500         | 0           | 0           | 0           | 0           | 0               | 500                              |
| DC - Mall                                    | OR          | Replace Windows                                      | 0           | 0           | 0           | 0           | 350         | 0           | 0               | 350                              |
| DC - Mall                                    | OR          | Renovate Front Entrance                              | 0           | 0           | 0           | 0           | 0           | 0           | 850             | 850                              |
| Subtotal: HMSG                               |             |  | 0           | 500         | 0           | 0           | 2,350       | 550         | 21,150          | 24,550                           |

### Museum Support Center

|               |     |  |        |        |     |        |   |   |        |        |
|---------------|-----|--|--------|--------|-----|--------|---|---|--------|--------|
| Suitland, MD  | FPD | Design Pod 3 Renovation                        | 0      | 1,000  | 0   | 0      | 0 | 0 | 0      | 1,000  |
| Suitland, MD  | FPD | Design Mechanical & Electrical Systems Upgrade | 0      | 0      | 0   | 0      | 0 | 0 | 4,000  | 4,000  |
| Suitland, MD  | MR  | Renovate Pod 3                                 | 0      | 0      | 0   | 10,000 | 0 | 0 | 0      | 10,000 |
| Suitland, MD  | MR  | Upgrade Mechanical & Electrical Systems        | 0      | 0      | 0   | 0      | 0 | 0 | 20,000 | 20,000 |
| Suitland, MD  | OR  | Upgrade Building CCTV and Pod Security         | 0      | 0      | 0   | 375    | 0 | 0 | 0      | 375    |
| Suitland, MD  | OR  | Modernize Security System                      | 0      | 0      | 0   | 1,025  | 0 | 0 | 0      | 1,025  |
| Suitland, MD  | OR  | Horticulture Support Building Stairs           | 0      | 0      | 0   | 95     | 0 | 0 | 0      | 95     |
| Suitland, MD  | OR  | Improve Fire Detection & Protection            | 0      | 0      | 500 | 0      | 0 | 0 | 0      | 500    |
| Suitland, MD  | CON | Construct Pod 5 (includes 5 FTE)               | 10,000 | 18,000 | 0   | 0      | 0 | 0 | 0      | 28,000 |
| Subtotal: MSC |     |  | 10,000 | 19,000 | 500 | 11,495 | 0 | 0 | 24,000 | 64,995 |



# SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM

## Program by Building

\$(000)s

| <i>Campus</i>                 | <i>Type</i> | <i>Project</i>  | <i>FY04</i> | <i>FY05</i> | <i>FY06</i> | <i>FY07</i> | <i>FY08</i> | <i>FY09</i> | <i>Outyears</i> | <i>FY04-FY12</i><br>Total |
|-------------------------------|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|---------------------------|
| <b>Multiple Site Projects</b> |             |   |             |             |             |             |             |             |                 |                           |
| All Facilities                | FPD         | Facility Planning and Design, Revitalization                      | 3,000       | 4,000       | 3,100       | 3,500       | 3,100       | 3,500       | 3,000           | 23,200                    |
| All Facilities                | FPD         | A&M Planning and Design, inc. Const. Planning                     | 0           | 600         | 500         | 500         | 600         | 600         | 600             | 3,400                     |
| All Facilities                | FPD         | Real Property and Space Utilization Studies                       | 300         | 250         | 250         | 250         | 300         | 500         | 500             | 2,350                     |
| All Facilities                | FPD         | Comprehensive Facilities Master Development Planning Studies      | 1,000       | 1,200       | 1,500       | 1,700       | 1,700       | 1,700       | 2,000           | 10,800                    |
| All Facilities                | MR          | Construct/Install Anti-Terrorism Protection                       | 0           | 4,900       | 11,000      | 6,100       | 2,200       | 7,800       | 6,600           | 38,600                    |
| All Facilities                | OR          | Provide Guard Services, All Locations                             | 300         | 300         | 300         | 300         | 300         | 300         | 300             | 2,100                     |
| All Facilities                | OR          | Replace Mail Wide Signage   | 575         | 0           | 0           | 0           | 0           | 0           | 0               | 575                       |
| All Facilities                | OR          | Miscellaneous Capital Repair (SI-wide, incl. NZP & asbestos/lead) | 3,370       | 3,620       | 4,050       | 4,010       | 4,025       | 4,400       | 5,000           | 28,475                    |
| All Facilities                | OR          | Personnel (27 FTE + 5 more FY08 on)                               | 3,000       | 3,000       | 3,000       | 3,000       | 3,500       | 3,500       | 3,500           | 22,500                    |
| All Facilities                | OR          | Reprographics and Library   | 500         | 500         | 500         | 500         | 500         | 500         | 500             | 3,500                     |
| All Facilities                | OR          | Install Backflow Prevention                                       | 0           | 0           | 0           | 0           | 3,000       | 0           | 0               | 3,000                     |
| DC - Soldier's Home           | OR          | Reglaze Curb Footing and Replace Floor, Greenhouses 9 & 10        | 0           | 0           | 0           | 0           | 0           | 150         | 0               | 150                       |
| Suitland, MD                  | OR          | Upgrade Fire Mains, All Suitland                                  | 0           | 0           | 400         | 0           | 0           | 0           | 0               | 400                       |
| All Facilities                | OR          | Program Oriented Alterations & Modifications                      | 0           | 0           | 3,000       | 4,000       | 5,000       | 5,000       | 6,000           | 23,000                    |
| Subtotal: MULTI               |             |   | 12,045      | 18,370      | 27,600      | 23,860      | 24,225      | 27,950      | 28,000          | 162,050                   |

## National Air and Space Museum

|                |     |  |   |   |       |   |     |       |        |        |
|----------------|-----|--|---|---|-------|---|-----|-------|--------|--------|
| DC - Mail      | FPD | Design Mechanical System, Basement & 3rd Floor       | 0 | 0 | 0     | 0 | 0   | 0     | 4,000  | 4,000  |
| DC - Mail      | MR  | Replace Mechanical & Electrical Systems              | 0 | 0 | 0     | 0 | 0   | 0     | 55,000 | 55,000 |
| DC - Mail      | OR  | Fire Alarm Upgrade                                   | 0 | 0 | 4,000 | 0 | 0   | 0     | 0      | 4,000  |
| DC - Mail      | OR  | Replace Dimmers/Ceiling in Theater                   | 0 | 0 | 0     | 0 | 0   | 200   | 0      | 200    |
| DC - Mail      | OR  | Modernize Security System                            | 0 | 0 | 0     | 0 | 400 | 0     | 0      | 400    |
| DC - Mail      | OR  | Upgrade Egress Signage & Travelway, Third Floor      | 0 | 0 | 0     | 0 | 0   | 100   | 0      | 100    |
| DC - Mail      | OR  | Upgrade Accessible Egress                            | 0 | 0 | 0     | 0 | 0   | 250   | 0      | 250    |
| DC - Mail      | OR  | Repair Irrigation System @ Jefferson Drive           | 0 | 0 | 0     | 0 | 0   | 100   | 0      | 100    |
| DC - Mail      | OR  | Repair Irrigation and Water Supply for Flight Garden | 0 | 0 | 0     | 0 | 0   | 320   | 0      | 320    |
| DC - Mail      | OR  | Repair Delta Solar Reflection Pool                   | 0 | 0 | 0     | 0 | 0   | 200   | 0      | 200    |
| DC - Mail      | OR  | Replace Ramsey Room Halon System                     | 0 | 0 | 200   | 0 | 0   | 0     | 0      | 200    |
| DC - Mail      | OR  | Waterproof Terrace at Perimeter                      | 0 | 0 | 1,500 | 0 | 0   | 0     | 0      | 1,500  |
| Subtotal: NASM |     |  | 0 | 0 | 5,700 | 0 | 400 | 1,170 | 59,000 | 66,270 |



SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM  
Program by Building  
\$(000)s

| <i>Campus</i>                                 | <i>Type</i> | <i>Project</i>                                  | <i>FY04</i> | <i>FY05</i> | <i>FY06</i> | <i>FY07</i> | <i>FY08</i> | <i>FY09</i> | <i>Outyears</i> | <i>FY04-FY12<br/>Total</i> |
|---|-------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|----------------------------|
| <b>National Museum of American History</b>    |             |   |             |             |             |             |             |             |                 |                            |
| DC - Mail                                     | FPD         | Design Public Space Renewal                     | 4,000       | 0           | 0           | 0           | 0           | 0           | 0               | 4,000                      |
| DC - Mail                                     | FPD         | Design Non-Public Space Renewal                 | 0           | 0           | 0           | 0           | 0           | 0           | 5,000           | 5,000                      |
| DC - Mail                                     | MR          | Renew Public Space                              | 3,500       | 15,000      | 23,000      | 3,500       | 0           | 0           | 0               | 45,000                     |
| DC - Mail                                     | MR          | Renew Non-Public Space                          | 0           | 0           | 0           | 0           | 0           | 0           | 45,000          | 45,000                     |
| DC - Mail                                     | OR          | Replace Emergency Generator                     | 0           | 0           | 0           | 1,000       | 0           | 0           | 0               | 1,000                      |
| DC - Mail                                     | OR          | Upgrade Collection Storage Electronic Security  | 0           | 0           | 0           | 0           | 500         | 0           | 0               | 500                        |
| Subtotal: NMAH                                |             |   | 7,500       | 15,000      | 23,000      | 4,500       | 500         | 0           | 50,000          | 100,500                    |
| <b>National Museum of the American Indian</b> |             |   |             |             |             |             |             |             |                 |                            |
| Suitland, MD                                  | OR          | Correct Water Penetration/Condensation, CRC     | 0           | 400         | 0           | 0           | 0           | 0           | 0               | 400                        |
| New York, NY                                  | OR          | Improve GGHC Accessibility                      | 0           | 0           | 80          | 0           | 0           | 0           | 0               | 80                         |
| DC - Mail                                     | CON         | Construct Mail Museum (includes 5 FTE)          | 0           | 400         | 80          | 0           | 0           | 0           | 0               | 0                          |
| Subtotal: NMAI                                |             |   | 0           | 400         | 80          | 0           | 0           | 0           | 0               | 480                        |
| <b>National Museum of Natural History</b>     |             |   |             |             |             |             |             |             |                 |                            |
| DC - Mail                                     | FPD         | Design Ongoing Revitalization                   | 0           | 3,000       | 4,000       | 4,000       | 4,000       | 4,000       | 7,000           | 26,000                     |
| DC - Mail                                     | MR          | Continue Revitalization                         | 3,000       | 10,000      | 30,000      | 30,000      | 25,000      | 34,000      | 41,000          | 173,000                    |
| DC - Mail                                     | MR          | Upgrade Entrance Access/Anti-terrorism Security | 0           | 0           | 11,000      | 0           | 0           | 0           | 0               | 11,000                     |
| DC - Mail                                     | OR          | Upgrade Collection Storage Electronic Security  | 0           | 0           | 0           | 0           | 0           | 500         | 0               | 500                        |
| DC - Mail                                     | OR          | Upgrade Hope Diamond Security                   | 0           | 0           | 0           | 0           | 0           | 300         | 0               | 300                        |
| DC - Mail                                     | OR          | Install Chemical Control Facility               | 0           | 0           | 0           | 0           | 1,000       | 0           | 0               | 1,000                      |
| DC - Mail                                     | OR          | Install New Interior Handrails                  | 0           | 0           | 0           | 0           | 0           | 600         | 0               | 600                        |
| DC - Mail                                     | OR          | Replace West Loading Dock Lift                  | 0           | 0           | 0           | 0           | 0           | 200         | 0               | 200                        |
| Subtotal: NMNH                                |             |   | 3,000       | 13,000      | 45,000      | 34,000      | 30,000      | 39,600      | 48,000          | 212,600                    |



# SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM

## Program by Building

\$(000)s

| Campus                   | Type | Project   | FY04  | FY05   | FY06   | FY07   | FY08   | FY09   | Outyears | FY04-FY12 Total |
|--------------------------|------|---|-------|--------|--------|--------|--------|--------|----------|-----------------|
| National Zoological Park |      |   |       |        |        |        |        |        |          |                 |
| DC - Rock Creek          | FPD  | Design Major Revitalization (Africa, Americas, Ape)             | 0     | 6,000  | 2,000  | 0      | 0      | 0      | 0        | 8,000           |
| DC - Rock Creek          | FPD  | Update Rock Creek Master Plan                                   | 0     | 2,000  | 0      | 0      | 0      | 0      | 0        | 2,000           |
| DC - Rock Creek          | FPD  | Design Small Mammals Renovation                                 | 0     | 0      | 0      | 3,000  | 0      | 0      | 0        | 3,000           |
| DC - Rock Creek          | FPD  | Design Reptile & Invertebrates Renovation                       | 0     | 0      | 0      | 0      | 3,000  | 0      | 0        | 3,000           |
| DC - Rock Creek          | FPD  | Continue Design for Revitalization of Major Structures (Brid, A | 0     | 0      | 0      | 0      | 0      | 6,000  | 2,000    | 8,000           |
| DC - Rock Creek          | MR   | Asia Trail I - (formerly Renovate Deer & Tapir Area)            | 9,000 | 15,000 | 0      | 0      | 0      | 0      | 0        | 24,000          |
| DC - Rock Creek          | MR   | Asia Trail II: Elephants FY05 ABOVE LINE REQUEST                | 0     | 34,000 | 29,000 | 0      | 0      | 0      | 0        | 63,000          |
| DC - Rock Creek          | MR   | Africa Exhibit  | 0     | 0      | 0      | 20,000 | 20,000 | 0      | 0        | 40,000          |
| DC - Rock Creek          | MR   | Renovate Seal/Sea Lion & Lower Bear (Americas)                  | 0     | 0      | 17,000 | 20,000 | 0      | 0      | 0        | 37,000          |
| DC - Rock Creek          | MR   | Renovate Ape House  | 0     | 0      | 0      | 0      | 15,000 | 0      | 0        | 15,000          |
| DC - Rock Creek          | MR   | Renovate Small Mammals  | 0     | 0      | 0      | 0      | 0      | 30,000 | 0        | 30,000          |
| DC - Rock Creek          | MR   | Continue Revitalization of Major Structures                     | 0     | 0      | 0      | 0      | 0      | 0      | 34,000   | 34,000          |
| Front Royal, VA          | MR   | Construct Consolidated Maintenance Facility                     | 0     | 0      | 0      | 0      | 0      | 0      | 5,000    | 5,000           |
| DC - Rock Creek          | OR   | Improve/Upgrade Site Utilities                                  | 0     | 1,000  | 500    | 500    | 500    | 500    | 1,500    | 4,500           |
| DC - Rock Creek          | OR   | Improve Bird, Small Mammals and/or Reptiles                     | 0     | 0      | 0      | 650    | 0      | 0      | 0        | 650             |
| DC - Rock Creek          | OR   | Replace Forest Carnivore Trail                                  | 0     | 0      | 0      | 220    | 0      | 0      | 0        | 220             |
| DC - Rock Creek          | OR   | Renovate/Improve Restrooms and Amenities                        | 0     | 500    | 1,500  | 900    | 0      | 0      | 0        | 2,900           |
| DC - Rock Creek          | OR   | Repair Seal/Sea Lion & Beaver/Otter (Emergency)                 | 425   | 0      | 0      | 0      | 0      | 0      | 0        | 425             |
| DC - Rock Creek          | OR   | Improve Fire Protection Systems                                 | 0     | 600    | 200    | 200    | 500    | 500    | 600      | 2,600           |
| DC - Rock Creek          | OR   | Upgrade Lion/Tiger Moat & Planters                              | 0     | 0      | 0      | 0      | 900    | 0      | 0        | 900             |
| DC - Rock Creek          | OR   | Replace Roof & Skylight Elephant, Reptile, Sm. Mammal, Ape      | 0     | 4,000  | 2,000  | 2,000  | 2,000  | 0      | 0        | 10,000          |
| Front Royal, VA          | OR   | Install/Improve Fire Protection Systems                         | 0     | 100    | 100    | 100    | 200    | 100    | 300      | 900             |
| Subtotal: NZP            |      |   | 9,425 | 63,200 | 52,300 | 47,570 | 42,100 | 37,100 | 43,400   | 295,095         |





SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM  
Program by Building  
\$(000)s

| Campus                        | Type | Project  | FY04   | FY05   | FY06 | FY07 | FY08 | FY09 | Outyears | FY04-FY12<br>Total |
|-------------------------------|------|--|--------|--------|------|------|------|------|----------|--------------------|
| <b>Patent Office Building</b> |      |  |        |        |      |      |      |      |          |                    |
| DC - Gallery Place            | MR   | Renovate Patent Office Building (includes 5 FTE) | 48,000 | 44,400 | 0    | 0    | 0    | 0    | 0        | 92,400             |
|                               |      | Subtotal: POB                                    | 48,000 | 44,400 | 0    | 0    | 0    | 0    | 0        | 92,400             |

**Quadrangle: National Museum of African Art, Sackler Gallery, Ripley Center**

|           |     |   |   |     |       |   |     |       |        |        |
|-----------|-----|---|---|-----|-------|---|-----|-------|--------|--------|
| DC - Mall | FPD | Design Mechanical System & Roof                           | 0 | 0   | 0     | 0 | 0   | 0     | 4,000  | 4,000  |
| DC - Mall | MR  | Replace Mechanical System & Roof                          | 0 | 0   | 0     | 0 | 0   | 0     | 56,000 | 56,000 |
| DC - Mall | OR  | Upgrade Utility Systems                                   | 0 | 0   | 0     | 0 | 0   | 0     | 8,500  | 8,500  |
| DC - Mall | OR  | Replace Steam Humidification System                       | 0 | 0   | 0     | 0 | 0   | 950   | 0      | 950    |
| DC - Mall | OR  | Improve NMAA Courtyard Access                             | 0 | 0   | 0     | 0 | 0   | 100   | 0      | 100    |
| DC - Mall | OR  | Upgrade Exhibit Electronic Security Intra AMSG/FGA, NMAFA | 0 | 0   | 0     | 0 | 400 | 0     | 0      | 400    |
| DC - Mall | OR  | Repair Interior Stone                                     | 0 | 0   | 0     | 0 | 0   | 250   | 0      | 250    |
| DC - Mall | OR  | Replace Fire Alarm System                                 | 0 | 0   | 1,500 | 0 | 0   | 0     | 0      | 1,500  |
| DC - Mall | OR  | Repair Roof Leaks   | 0 | 500 | 0     | 0 | 0   | 0     | 0      | 500    |
|           |     | Subtotal: QUAD  | 0 | 500 | 1,500 | 0 | 400 | 1,300 | 68,500 | 72,200 |

**Renwick Gallery**

|                     |     |  |   |   |   |   |       |       |        |        |
|---------------------|-----|--|---|---|---|---|-------|-------|--------|--------|
| DC - Lafayette Park | FPD | Design Major Restoration                             | 0 | 0 | 0 | 0 | 2,300 | 0     | 0      | 2,300  |
| DC - Lafayette Park | MR  | Restore Renwick Gallery                              | 0 | 0 | 0 | 0 | 0     | 0     | 23,000 | 23,000 |
| DC - Lafayette Park | OR  | Improve Life Safety, incl. Cooling Tower Replacement | 0 | 0 | 0 | 0 | 0     | 2,000 | 0      | 2,000  |
|                     |     | Subtotal: RGA  | 0 | 0 | 0 | 0 | 2,300 | 2,000 | 23,000 | 27,300 |



# SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM

## Program by Building

\$(000)s

| <i>Campus</i>                                    | <i>Type</i> | <i>Project</i>  | <i>FY04</i> | <i>FY05</i>  | <i>FY06</i>  | <i>FY07</i> | <i>FY08</i>  | <i>FY09</i>  | <i>Outyears</i> | <i>FY04-FY12<br/>Total</i> |
|--|-------------|---|-------------|--------------|--------------|-------------|--------------|--------------|-----------------|----------------------------|
| <b>Smithsonian Astrophysical Observatory</b>     |             |   |             |              |              |             |              |              |                 |                            |
| Cambridge, MA                                    | OR          | Install Fire Protection Sprinklers, Cambridge Buildings | 0           | 0            | 0            | 0           | 1,000        | 1,000        | 1,000           | 3,000                      |
| Hawaii   | OR          | Install SMA Emergency Generator                         | 0           | 0            | 0            | 0           | 250          | 0            | 0               | 250                        |
| Hawaii   | OR          | Upgrade HVAC, SMA                                       | 0           | 80           | 0            | 0           | 0            | 0            | 0               | 80                         |
| Hawaii   | OR          | Oxygen Enrichment, Summit Facility                      | 0           | 0            | 100          | 0           | 0            | 0            | 0               | 100                        |
| Hawaii   | OR          | Replace Roll-up Door, SMA                               | 0           | 100          | 0            | 0           | 0            | 0            | 0               | 100                        |
| Hawaii   | OR          | Improve Fire Safety, SMA                                | 0           | 50           | 0            | 0           | 0            | 0            | 0               | 50                         |
| Tuscon, AZ                                       | OR          | Replace HVAC  | 0           | 0            | 0            | 0           | 0            | 500          | 0               | 500                        |
| Tuscon, AZ                                       | OR          | Improve Water System                                    | 0           | 0            | 350          | 0           | 0            | 0            | 0               | 350                        |
| Tuscon, AZ                                       | OR          | Install Microwave Link Summit to Tucson                 | 0           | 0            | 200          | 0           | 0            | 0            | 0               | 200                        |
| Tuscon, AZ                                       | OR          | Install MMT Rotary Uninterruptible Power                | 0           | 0            | 0            | 0           | 0            | 150          | 0               | 150                        |
| Tuscon, AZ                                       | OR          | Replace FM Repeater                                     | 0           | 0            | 0            | 0           | 0            | 60           | 0               | 60                         |
| Tuscon, AZ                                       | OR          | Repair/Replace Summit Dorm                              | 0           | 0            | 0            | 0           | 0            | 0            | 3,000           | 3,000                      |
| Tuscon, AZ                                       | OR          | Replace Guardrails, Mt. Hopkins Road                    | 0           | 0            | 0            | 0           | 500          | 0            | 0               | 500                        |
| Tuscon, AZ                                       | OR          | Repair/Improve Whipple Road                             | 0           | 0            | 0            | 0           | 0            | 0            | 2,000           | 2,000                      |
| Tuscon, AZ                                       | OR          | Repair Common Building Exterior                         | 0           | 0            | 0            | 0           | 0            | 150          | 0               | 150                        |
| Tuscon, AZ                                       | CON         | VERITAS, Control Building                               | 0           | 990          | 0            | 0           | 0            | 0            | 0               | 990                        |
| <b>Subtotal: SAO</b>                             |             |   | <b>0</b>    | <b>1,220</b> | <b>650</b>   | <b>0</b>    | <b>1,750</b> | <b>1,860</b> | <b>6,000</b>    | <b>11,480</b>              |
| <b>Smithsonian Environmental Research Center</b> |             |   |             |              |              |             |              |              |                 |                            |
| Edgewater, MD                                    | OR          | Install Utility Connection to Waterfront                | 0           | 0            | 800          | 0           | 0            | 0            | 0               | 800                        |
| Edgewater, MD                                    | OR          | Repair Sanitary Sewer                                   | 0           | 0            | 0            | 0           | 500          | 0            | 0               | 500                        |
| Edgewater, MD                                    | OR          | Replace HVAC Systems                                    | 0           | 0            | 500          | 500         | 500          | 0            | 0               | 2,000                      |
| Edgewater, MD                                    | OR          | Install Perimeter Fire Lane                             | 0           | 0            | 0            | 0           | 1,750        | 0            | 0               | 1,750                      |
| Edgewater, MD                                    | OR          | Install Perimeter CCTV                                  | 0           | 0            | 0            | 0           | 275          | 0            | 0               | 275                        |
| Edgewater, MD                                    | OR          | Improve Security Lighting                               | 0           | 0            | 100          | 0           | 0            | 0            | 0               | 100                        |
| Edgewater, MD                                    | OR          | Improve Entrance Road                                   | 0           | 0            | 0            | 0           | 0            | 0            | 1,500           | 1,500                      |
| Edgewater, MD                                    | OR          | Consolidate and Improve Alcohol Storage                 | 0           | 600          | 0            | 0           | 0            | 0            | 0               | 600                        |
| Edgewater, MD                                    | OR          | Improve Signage, Security and Accessibility             | 0           | 0            | 0            | 0           | 0            | 0            | 1,400           | 1,400                      |
| Edgewater, MD                                    | OR          | Repair Corn Island Facilities                           | 0           | 0            | 0            | 0           | 0            | 700          | 0               | 700                        |
| Edgewater, MD                                    | OR          | Improve Access to Southern Site                         | 0           | 0            | 0            | 0           | 0            | 0            | 1,000           | 1,000                      |
| <b>Subtotal: SERC</b>                            |             |   | <b>0</b>    | <b>600</b>   | <b>1,400</b> | <b>500</b>  | <b>1,275</b> | <b>2,950</b> | <b>3,900</b>    | <b>10,625</b>              |



# SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM

## Program by Building

\$(000)s

| <i>Campus</i>               | <i>Type</i> | <i>Project</i>                                   | <i>FY04</i> | <i>FY05</i> | <i>FY06</i> | <i>FY07</i>  | <i>FY08</i>  | <i>FY09</i>  | <i>Outyears</i> | <i>FY04-FY12<br/>Total</i> |
|-----------------------------|-------------|--|-------------|-------------|-------------|--------------|--------------|--------------|-----------------|----------------------------|
| <b>Silver Hill Facility</b> |             |  |             |             |             |              |              |              |                 |                            |
| Suitland, MD                | FPD         | Design Infrastructure Revitalization             | 0           | 0           | 0           | 0            | 0            | 0            | 2,000           | 2,000                      |
| Suitland, MD                | MR          | Revitalize Infrastructure                        | 0           | 0           | 0           | 0            | 0            | 0            | 21,000          | 21,000                     |
| Suitland, MD                | OR          | Provide Surge Protection for Site                | 0           | 0           | 0           | 0            | 750          | 0            | 0               | 750                        |
| Suitland, MD                | OR          | Improve Environmental Conditions, Bldg 21        | 0           | 0           | 0           | 0            | 0            | 150          | 0               | 150                        |
| Suitland, MD                | OR          | Improve Environmental Conditions, Bldgs... 15/16 | 0           | 0           | 0           | 0            | 0            | 300          | 0               | 300                        |
| Suitland, MD                | OR          | Repair HVAC, Buildings 22 & 23                   | 0           | 0           | 0           | 0            | 600          | 0            | 0               | 600                        |
| Suitland, MD                | OR          | Modernize Security System at Garber              | 0           | 0           | 400         | 400          | 0            | 0            | 0               | 800                        |
| Suitland, MD                | OR          | Abate Asbestos Bldg. in 16                       | 0           | 0           | 0           | 0            | 0            | 0            | 2,900           | 2,900                      |
| Suitland, MD                | OR          | Abate Asbestos Bldg. in 18                       | 0           | 0           | 0           | 0            | 0            | 2,000        | 0               | 2,000                      |
| Suitland, MD                | OR          | Abate Asbestos Bldg. in 15                       | 0           | 0           | 0           | 0            | 2,000        | 0            | 0               | 2,000                      |
| Suitland, MD                | OR          | Monitor Asbestos Condition Throughout Site       | 0           | 0           | 0           | 500          | 0            | 0            | 0               | 500                        |
| Suitland, MD                | OR          | Install Emergency Intercom                       | 0           | 0           | 0           | 0            | 0            | 120          | 0               | 120                        |
| Suitland, MD                | OR          | Renovate Building 27                             | 0           | 0           | 0           | 0            | 1,500        | 0            | 0               | 1,500                      |
| Suitland, MD                | OR          | Renovate Buildings 7 & 31                        | 0           | 0           | 150         | 0            | 0            | 0            | 0               | 150                        |
| Suitland, MD                | OR          | Upgrade Fire Alarm System                        | 0           | 0           | 0           | 500          | 0            | 0            | 0               | 500                        |
| Suitland, MD                | OR          | Provide Central Fire Pump                        | 0           | 0           | 0           | 750          | 0            | 0            | 0               | 750                        |
| Suitland, MD                | OR          | Repair Building 10 Roof                          | 0           | 0           | 0           | 500          | 0            | 0            | 0               | 500                        |
| <b>Subtotal: SHF</b>        |             |  | <b>0</b>    | <b>0</b>    | <b>550</b>  | <b>2,650</b> | <b>4,850</b> | <b>2,570</b> | <b>25,900</b>   | <b>36,520</b>              |

## Smithsonian Institution Building (Castle)

|                      |     |                             |          |          |          |          |          |          |               |               |
|----------------------|-----|-----------------------------|----------|----------|----------|----------|----------|----------|---------------|---------------|
| DC - Mall            | FPD | Design Restoration Project  | 0        | 0        | 0        | 0        | 0        | 0        | 5,000         | 5,000         |
| DC - Mall            | MR  | Renovate Smithsonian Castle | 0        | 0        | 0        | 0        | 0        | 0        | 75,000        | 75,000        |
| <b>Subtotal: SIB</b> |     |                             | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>80,000</b> | <b>80,000</b> |



# SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM

## Program by Building

\$(000)s

| <i>Campus</i>                                  | <i>Type</i> | <i>Project</i>                                     | <i>FY04</i> | <i>FY05</i> | <i>FY06</i> | <i>FY07</i> | <i>FY08</i> | <i>FY09</i> | <i>Outyears</i> | <i>FY04-FY12</i><br><i>Total</i> |
|--|-------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|----------------------------------|
| <b>Smithsonian Tropical Research Institute</b> |             |  |             |             |             |             |             |             |                 |                                  |
| Panama   | OR          | Improve Communications/OIT Systems                 | 0           | 0           | 225         | 0           | 0           | 0           | 0               | 225                              |
| Panama   | OR          | Automate Lighting System/ Install Surge Protection | 0           | 0           | 350         | 0           | 0           | 0           | 0               | 350                              |
| Panama   | OR          | Install Wall/Fence & Guard Booth, Tivoli           | 0           | 0           | 0           | 0           | 0           | 0           | 2,000           | 2,000                            |
| Panama   | OR          | Repair Tivoli Interior/Exterior                    | 0           | 0           | 0           | 0           | 0           | 0           | 1,500           | 1,500                            |
| Panama   | OR          | Repair Tivoli Structure                            | 0           | 300         | 0           | 0           | 0           | 0           | 0               | 300                              |
| Panama   | OR          | Improve BCI Facility                               | 0           | 0           | 150         | 0           | 0           | 0           | 0               | 150                              |
| Panama   | OR          | Repair Tupper Facade & Roof                        | 0           | 0           | 540         | 275         | 0           | 0           | 0               | 815                              |
| Panama   | OR          | Repair Exteriors at BCI                            | 0           | 0           | 445         | 0           | 0           | 0           | 0               | 445                              |
| Subtotal: STRI                                 |             |  | 0           | 300         | 1,710       | 275         | 0           | 0           | 3,500           | 5,785                            |
| <b>TOTAL, FACILITIES CAPITAL</b>               |             |  | 89,970      | 215,262     | 161,000     | 156,100     | 152,200     | 157,800     | 571,650         | 1,503,982                        |

### SUMMARY BY CATEGORY

|                      |        |         |         |         |         |         |         |           |
|----------------------|--------|---------|---------|---------|---------|---------|---------|-----------|
| Major Projects       | 63,500 | 157,072 | 121,000 | 119,600 | 101,200 | 110,800 | 485,600 | 1,158,772 |
| Other Revitalization | 8,170  | 16,150  | 28,650  | 23,550  | 33,000  | 30,700  | 46,950  | 187,170   |
| Planning & Design    | 8,300  | 23,050  | 11,350  | 12,950  | 18,000  | 16,300  | 39,100  | 129,050   |
| Construction         | 10,000 | 18,990  | 0       | 0       | 0       | 0       | 0       | 28,990    |
|                      | 89,970 | 215,262 | 161,000 | 156,100 | 152,200 | 157,800 | 571,650 | 1,503,982 |





SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM

Program by Category

\$(000)s

| Campus                                | Location | Project  | FY04          | FY05           | FY06           | FY07           | FY08           | FY09           | Outyears       | FY04-FY12<br>Total |
|---------------------------------------|----------|--|---------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|
| <b>REVITALIZATION</b>                 |          |  |               |                |                |                |                |                |                |                    |
| <b>MAJOR PROJECTS</b>                 |          |  |               |                |                |                |                |                |                |                    |
| DC - Mail                             | AIB      | Close Building and Relocate Staff and Collections      | 0             | 26,400         | 0              | 0              | 0              | 0              | 0              | 26,400             |
| DC - Mail                             | AIB      | Consolidate Staff & Collections ABOVE THE LINE REQUEST | 0             | 7,372          | 0              | 0              | 0              | 0              | 0              | 7,372              |
| DC - Mail                             | AIB      | Restore Arts & Industries Building                     | 0             | 0              | 0              | 30,000         | 39,000         | 39,000         | 74,000         | 182,000            |
| DC - Mail                             | FGA      | Replace/Restore Roof Exterior                          | 0             | 0              | 0              | 0              | 0              | 0              | 10,000         | 10,000             |
| DC - Mail                             | HMSG     | Restore & Waterproof Plaza & Foundation Walls          | 0             | 0              | 0              | 0              | 0              | 0              | 20,000         | 20,000             |
| DC - Mail                             | MSC      | Renovate Pod 3   | 0             | 0              | 0              | 10,000         | 0              | 0              | 0              | 10,000             |
| Suitland, MD                          | MSC      | Upgrade Mechanical & Electrical Systems                | 0             | 0              | 0              | 0              | 0              | 0              | 20,000         | 20,000             |
| Suitland, MD                          | MULTI    | Construct/Install Anti-Terrorism Protection            | 0             | 4,900          | 11,000         | 6,100          | 2,200          | 7,800          | 6,600          | 38,600             |
| All Facilities                        | NASM     | Replace Mechanical & Electrical Systems                | 0             | 0              | 0              | 0              | 0              | 0              | 55,000         | 55,000             |
| DC - Mail                             | NMAH     | Renew Public Space                                     | 3,500         | 15,000         | 23,000         | 3,500          | 0              | 0              | 0              | 45,000             |
| DC - Mail                             | NMAH     | Renew Non-Public Space                                 | 0             | 0              | 0              | 0              | 0              | 0              | 45,000         | 45,000             |
| DC - Mail                             | NMNH     | Continue Revitalization                                | 3,000         | 10,000         | 30,000         | 30,000         | 25,000         | 34,000         | 41,000         | 173,000            |
| DC - Mail                             | NMNH     | Upgrade Entrance Access/Anti-terrorism Security        | 0             | 0              | 11,000         | 0              | 0              | 0              | 0              | 11,000             |
| DC - Rock Creek                       | NZP      | Asia Trail I - (formerly Renovate Deer & Tapir Area)   | 9,000         | 15,000         | 0              | 0              | 0              | 0              | 0              | 24,000             |
| DC - Rock Creek                       | NZP      | Asia Trail II: Elephants FY05 ABOVE LINE REQUEST       | 0             | 34,000         | 29,000         | 0              | 0              | 0              | 0              | 63,000             |
| DC - Rock Creek                       | NZP      | Africa Exhibit   | 0             | 0              | 0              | 20,000         | 20,000         | 0              | 0              | 40,000             |
| DC - Rock Creek                       | NZP      | Renovate Seal/Sea Lion & Lower Bear (Americas)         | 0             | 0              | 17,000         | 20,000         | 0              | 0              | 0              | 37,000             |
| DC - Rock Creek                       | NZP      | Renovate Ape House                                     | 0             | 0              | 0              | 0              | 15,000         | 0              | 0              | 15,000             |
| DC - Rock Creek                       | NZP      | Renovate Small Mammals                                 | 0             | 0              | 0              | 0              | 0              | 30,000         | 0              | 30,000             |
| DC - Rock Creek                       | NZP      | Continue Revitalization of Major Structures            | 0             | 0              | 0              | 0              | 0              | 0              | 34,000         | 34,000             |
| DC - Rock Creek                       | NZP      | Construct Consolidated Maintenance Facility            | 0             | 0              | 0              | 0              | 0              | 0              | 5,000          | 5,000              |
| Front Royal, VA                       | NZPFR    | Renovate Patent Office Building (includes 5 FTE)       | 48,000        | 44,400         | 0              | 0              | 0              | 0              | 0              | 92,400             |
| DC - Gallery Place                    | POB      | Replace Mechanical System & Roof                       | 0             | 0              | 0              | 0              | 0              | 0              | 56,000         | 56,000             |
| DC - Mail                             | QUAD     | Restore Renwick Gallery                                | 0             | 0              | 0              | 0              | 0              | 0              | 23,000         | 23,000             |
| DC - Lafayette Park                   | RG       | Revitalize Infrastructure                              | 0             | 0              | 0              | 0              | 0              | 0              | 21,000         | 21,000             |
| Suitland, MD                          | SHF      | Renovate Smithsonian Castle                            | 0             | 0              | 0              | 0              | 0              | 0              | 75,000         | 75,000             |
| DC - Mail                             | SIB      |  |               |                |                |                |                |                |                |                    |
| <b>Subtotal, Major Revitalization</b> |          |  | <b>63,500</b> | <b>157,072</b> | <b>121,000</b> | <b>119,600</b> | <b>101,200</b> | <b>110,800</b> | <b>485,600</b> | <b>1,158,772</b>   |



# SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM

## Program by Category

\$(000)s

| Campus                      | Location | Project   | FY04  | FY05  | FY06  | FY07  | FY08  | FY09  | Outyears | FY04-FY12<br>Total |
|-----------------------------|----------|---|-------|-------|-------|-------|-------|-------|----------|--------------------|
| <b>OTHER REVITALIZATION</b> |          |   |       |       |       |       |       |       |          |                    |
| DC - Anacostia              | AM       | Install Fence, Gate and Guard Booth                               |       |       | 0     | 0     | 0     | 0     | 1,000    | 1,000              |
| New York, NY                | CHM      | Upgrade Mansion Electric Distribution & Exterior Lighting         | 0     | 0     | 750   | 750   | 750   | 750   | 0        | 3,000              |
| New York, NY                | CHM      | Replace Mansion Boilers   | 0     | 0     | 260   | 0     | 0     | 0     | 0        | 260                |
| New York, NY                | CHM      | Upgrade Collection Storage and Perimeter Security                 | 0     | 0     | 0     | 0     | 0     | 250   | 0        | 250                |
| New York, NY                | CHM      | Stabilize Mansion Fence   | 0     | 0     | 0     | 0     | 0     | 0     | 600      | 600                |
| New York, NY                | CHM      | Stabilize Garden Stairwalls                                       | 0     | 0     | 0     | 0     | 0     | 0     | 900      | 900                |
| New York, NY                | CHM      | Stabilize Mansion Sidewalks                                       | 0     | 0     | 0     | 0     | 0     | 0     | 450      | 450                |
| New York, NY                | CHM      | Complete Miller-Fox Renovation                                    | 0     | 0     | 0     | 0     | 1,300 | 0     | 0        | 1,300              |
| New York, NY                | CHM      | Repair Utility System   | 0     | 0     | 0     | 500   | 0     | 0     | 0        | 500                |
| DC - Mail                   | FGA      | Replace Gallery Lighting Systems                                  | 0     | 0     | 0     | 0     | 0     | 0     | 350      | 350                |
| DC - Mail                   | FGA      | Correct Courtyard Window & Door Condensation                      | 0     | 0     | 0     | 0     | 0     | 150   | 0        | 150                |
| DC - Mail                   | FGA      | Upgrade Accessible Entrance & Corridor                            | 0     | 0     | 0     | 0     | 0     | 600   | 0        | 600                |
| DC - Mail                   | HMSG     | Improve Mail Master Raceway                                       | 0     | 0     | 0     | 0     | 0     | 0     | 300      | 300                |
| DC - Mail                   | HMSG     | Modernize Security System   | 0     | 0     | 0     | 0     | 0     | 550   | 0        | 550                |
| DC - Mail                   | HMSG     | Replace Loading Dock Retaining Walls                              | 0     | 500   | 0     | 0     | 0     | 0     | 0        | 500                |
| DC - Mail                   | HMSG     | Replace Windows   | 0     | 0     | 0     | 0     | 350   | 0     | 0        | 350                |
| DC - Mail                   | HMSG     | Renovate Front Entrance   | 0     | 0     | 0     | 0     | 0     | 0     | 850      | 850                |
| Suitland, MD                | MSC      | Upgrade Building CCTV and Pod Security                            | 0     | 0     | 0     | 375   | 0     | 0     | 0        | 375                |
| Suitland, MD                | MSC      | Modernize Security System   | 0     | 0     | 0     | 1,025 | 0     | 0     | 0        | 1,025              |
| Suitland, MD                | MSC      | Improve Fire Detection & Protection                               | 0     | 0     | 500   | 0     | 0     | 0     | 0        | 500                |
| All Facilities              | MULTI    | Install Backflow Prevention                                       | 0     | 0     | 0     | 0     | 3,000 | 0     | 0        | 3,000              |
| All Facilities              | MULTI    | Provide Guard Services, All Locations                             | 300   | 300   | 300   | 300   | 300   | 300   | 300      | 2,100              |
| All Facilities              | MULTI    | Replace Mail Wide Signage   | 575   | 0     | 0     | 0     | 0     | 0     | 0        | 575                |
| All Facilities              | MULTI    | Miscellaneous Capital Repair (SI-wide, incl. NFP & asbestos/lead) | 3,370 | 3,620 | 4,050 | 4,010 | 4,025 | 4,400 | 5,000    | 28,475             |
| All Facilities              | MULTI    | Personnel (27 FTE + 5 more FY08 on)                               | 3,000 | 3,000 | 3,000 | 3,000 | 3,500 | 3,500 | 3,500    | 22,500             |
| All Facilities              | MULTI    | Reprographics and Library   | 500   | 500   | 500   | 500   | 500   | 500   | 500      | 3,500              |
| All Facilities              | MULTI    | Program Oriented Alterations & Modifications                      | 0     | 0     | 3,000 | 4,000 | 5,000 | 5,000 | 6,000    | 23,000             |
| DC - Soldier's Home         | MULTI    | Reglaze Curb Footing and Replace Floor, Greenhouses 9 & 10        | 0     | 0     | 0     | 0     | 0     | 150   | 0        | 150                |
| Suitland, MD                | MULTI    | Upgrade Fire Mains, All Suitland                                  | 0     | 0     | 400   | 0     | 0     | 0     | 0        | 400                |
| DC - Mail                   | NASM     | Replace Dimmers/Ceiling in Theater                                | 0     | 0     | 0     | 0     | 0     | 200   | 0        | 200                |
| DC - Mail                   | NASM     | Modernize Security System   | 0     | 0     | 0     | 0     | 400   | 0     | 0        | 400                |
| DC - Mail                   | NASM     | Upgrade Egress Signage & Travelway, Third Floor                   | 0     | 0     | 0     | 0     | 0     | 100   | 0        | 100                |
| DC - Mail                   | NASM     | Upgrade Accessible Egress   | 0     | 0     | 0     | 0     | 0     | 250   | 0        | 250                |
| DC - Mail                   | NASM     | Repair Irrigation System @ Jefferson Drive                        | 0     | 0     | 0     | 0     | 0     | 100   | 0        | 100                |
| DC - Mail                   | NASM     | Repair Irrigation and Water Supply for Flight Garden              | 0     | 0     | 0     | 0     | 0     | 320   | 0        | 320                |
| DC - Mail                   | NASM     | Repair Delta Solar Reflection Pool                                | 0     | 0     | 0     | 0     | 0     | 200   | 0        | 200                |
| DC - Mail                   | NASM     | Fire Alarm Upgrade  | 0     | 0     | 4,000 | 0     | 0     | 0     | 0        | 4,000              |
| DC - Mail                   | NASM     | Replace Ramsey Room Halon System                                  | 0     | 0     | 200   | 0     | 0     | 0     | 0        | 200                |
| DC - Mail                   | NASM     | Waterproof Terrace at Perimeter                                   | 0     | 0     | 1,500 | 0     | 0     | 0     | 0        | 1,500              |
| DC - Mail                   | NMAH     | Replace Emergency Generator                                       | 0     | 0     | 0     | 1,000 | 0     | 0     | 0        | 1,000              |



# SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM

## Program by Category

\$(000)s

| Campus              | Location | Project  | FY04 | FY05  | FY06  | FY07  | FY08  | FY09  | Outyears | FY04-FY12 Total |
|---------------------|----------|--|------|-------|-------|-------|-------|-------|----------|-----------------|
| DC - Mail           | NMAH     | Upgrade Collection Storage Electronic Security             | 0    | 0     | 0     | 0     | 500   | 0     | 0        | 500             |
| New York, NY        | NMAI     | Improve GGHC Accessibility                                 | 0    | 0     | 80    | 0     | 0     | 0     | 0        | 80              |
| Suitland, MD        | NMAI     | Correct Water Penetration/Condensation, CRC                | 0    | 400   | 0     | 0     | 0     | 0     | 0        | 400             |
| DC - Mail           | NMNH     | Upgrade Collection Storage Electronic Security             | 0    | 0     | 0     | 0     | 0     | 500   | 0        | 500             |
| DC - Mail           | NMNH     | Upgrade Hope Diamond Security                              | 0    | 0     | 0     | 0     | 0     | 300   | 0        | 300             |
| DC - Mail           | NMNH     | Install Chemical Control Facility                          | 0    | 0     | 0     | 0     | 1,000 | 0     | 0        | 1,000           |
| DC - Mail           | NMNH     | Install New Interior Handrails                             | 0    | 0     | 0     | 0     | 0     | 600   | 0        | 600             |
| DC - Mail           | NMNH     | Replace West Loading Dock Lift                             | 0    | 0     | 0     | 0     | 0     | 200   | 0        | 200             |
| DC - Rock Creek     | NZP      | Improve/Upgrade Site Utilities                             | 0    | 1,000 | 500   | 500   | 500   | 500   | 1,500    | 4,500           |
| DC - Rock Creek     | NZP      | Improve Bird, Small Mammals and/or Reptiles                | 0    | 0     | 0     | 650   | 0     | 0     | 0        | 650             |
| DC - Rock Creek     | NZP      | Replace Forest Carnivore Trail                             | 0    | 0     | 0     | 220   | 0     | 0     | 0        | 220             |
| DC - Rock Creek     | NZP      | Renovate/Improve Restrooms and Amenities                   | 0    | 500   | 1,500 | 900   | 0     | 0     | 0        | 2,900           |
| DC - Rock Creek     | NZP      | Repair Seal/Sea Lion & Beaver/Otter (Emergency)            | 425  | 0     | 0     | 0     | 0     | 0     | 0        | 425             |
| DC - Rock Creek     | NZP      | Improve Fire Protection Systems                            | 0    | 600   | 200   | 200   | 500   | 500   | 600      | 2,600           |
| DC - Rock Creek     | NZP      | Upgrade Lion/Tiger Moat & Planters                         | 0    | 0     | 0     | 0     | 900   | 0     | 0        | 900             |
| DC - Rock Creek     | NZP      | Replace Roof & Skylight Elephant, Reptile, Sm. Mammal, Ape | 0    | 4,000 | 2,000 | 2,000 | 2,000 | 0     | 0        | 10,000          |
| Front Royal, VA     | NZPFR    | Install/Improve Fire Protection Systems                    | 0    | 100   | 100   | 100   | 200   | 100   | 300      | 900             |
| DC - Mail           | QUAD     | Upgrade Utility Systems                                    | 0    | 0     | 0     | 0     | 0     | 0     | 0        | 8,500           |
| DC - Mail           | QUAD     | Replace Steam Humidification System                        | 0    | 0     | 0     | 0     | 0     | 950   | 0        | 950             |
| DC - Mail           | QUAD     | Upgrade Exhibit Electronic Security Intra AMSG/FGA, NMAfA  | 0    | 0     | 0     | 0     | 400   | 0     | 0        | 400             |
| DC - Mail           | QUAD     | Repair Interior Stone                                      | 0    | 0     | 0     | 0     | 0     | 250   | 0        | 250             |
| DC - Mail           | QUAD     | Replace Fire Alarm System                                  | 0    | 0     | 1,500 | 0     | 0     | 0     | 0        | 1,500           |
| DC - Mail           | QUAD     | Repair Roof Leaks  | 0    | 500   | 0     | 0     | 0     | 0     | 0        | 500             |
| DC - Mail           | QUAD     | Improve NMAA Courtyard Access                              | 0    | 0     | 0     | 0     | 0     | 100   | 0        | 100             |
| DC - Lafayette Park | RG       | Improve Life Safety, incl. Cooling Tower Replacement       | 0    | 0     | 0     | 0     | 0     | 2,000 | 0        | 2,000           |
| Cambridge, MA       | SAO      | Install Fire Protection Sprinklers, Cambridge Buildings    | 0    | 0     | 0     | 0     | 1,000 | 1,000 | 1,000    | 3,000           |
| Hawaii              | SAO      | Install SMA Emergency Generator                            | 0    | 0     | 0     | 0     | 250   | 0     | 0        | 250             |
| Hawaii              | SAO      | Upgrade HVAC, SMA  | 0    | 80    | 0     | 0     | 0     | 0     | 0        | 80              |
| Hawaii              | SAO      | Oxygen Enrichment, Summit Facility                         | 0    | 0     | 100   | 0     | 0     | 0     | 0        | 100             |
| Hawaii              | SAO      | Replace Roll-up Door, SMA                                  | 0    | 100   | 0     | 0     | 0     | 0     | 0        | 100             |
| Hawaii              | SAO      | Improve Fire Safety, SMA                                   | 0    | 50    | 0     | 0     | 0     | 0     | 0        | 50              |
| Tuscon, AZ          | SAQ      | Replace HVAC   | 0    | 0     | 0     | 0     | 0     | 500   | 0        | 500             |
| Tuscon, AZ          | SAQ      | Improve Water System                                       | 0    | 0     | 350   | 0     | 0     | 0     | 0        | 350             |
| Tuscon, AZ          | SAQ      | Install Microwave Link Summit to Tucson                    | 0    | 0     | 200   | 0     | 0     | 0     | 0        | 200             |
| Tuscon, AZ          | SAQ      | Install MMT Rotary Uninterruptible Power                   | 0    | 0     | 0     | 0     | 0     | 150   | 0        | 150             |
| Tuscon, AZ          | SAQ      | Replace FM Repeater  | 0    | 0     | 0     | 0     | 0     | 60    | 0        | 60              |
| Tuscon, AZ          | SAQ      | Repair/Replace Summit Dorm                                 | 0    | 0     | 0     | 0     | 0     | 0     | 3,000    | 3,000           |
| Tuscon, AZ          | SAQ      | Replace Guardrails, Mt. Hopkins Road                       | 0    | 0     | 0     | 0     | 500   | 0     | 0        | 500             |
| Tuscon, AZ          | SAQ      | Repair/Improve Whipple Road                                | 0    | 0     | 0     | 0     | 0     | 0     | 2,000    | 2,000           |
| Tuscon, AZ          | SAQ      | Repair Common Building Exterior                            | 0    | 0     | 0     | 0     | 0     | 150   | 0        | 150             |





# SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM

## Program by Category

\$(000)s

| Campus                         | Location | Project  | FY04  | FY05   | FY06   | FY07   | FY08   | FY09   | Outyears | FY04-FY12<br>Total |
|--------------------------------|----------|--|-------|--------|--------|--------|--------|--------|----------|--------------------|
| Edgewater, MD                  | SERC     | Install Utility Connection to Waterfront           | 0     | 0      | 800    | 0      | 0      | 0      | 0        | 800                |
| Edgewater, MD                  | SERC     | Repair Sanitary Sewer                              | 0     | 0      | 0      | 0      | 500    | 0      | 0        | 500                |
| Edgewater, MD                  | SERC     | Replace HVAC Systems                               | 0     | 0      | 500    | 500    | 500    | 500    | 0        | 2,000              |
| Edgewater, MD                  | SERC     | Install Perimeter Fire Lane                        | 0     | 0      | 0      | 0      | 0      | 1,750  | 0        | 1,750              |
| Edgewater, MD                  | SERC     | Install Perimeter CCTV                             | 0     | 0      | 0      | 0      | 275    | 0      | 0        | 275                |
| Edgewater, MD                  | SERC     | Improve Security Lighting                          | 0     | 0      | 100    | 0      | 0      | 0      | 0        | 100                |
| Edgewater, MD                  | SERC     | Improve Entrance Road                              | 0     | 0      | 0      | 0      | 0      | 0      | 1,500    | 1,500              |
| Edgewater, MD                  | SERC     | Consolidate and Improve Alcohol Storage            | 0     | 600    | 0      | 0      | 0      | 0      | 0        | 600                |
| Edgewater, MD                  | SERC     | Improve Signage, Security and Accessibility        | 0     | 0      | 0      | 0      | 0      | 0      | 1,400    | 1,400              |
| Edgewater, MD                  | SERC     | Repair Corn Island Facilities                      | 0     | 0      | 0      | 0      | 0      | 700    | 0        | 700                |
| Edgewater, MD                  | SERC     | Improve Access to Southern Site                    | 0     | 0      | 0      | 0      | 0      | 0      | 1,000    | 1,000              |
| Suitland, MD                   | SHF      | Provide Surge Protection for Site                  | 0     | 0      | 0      | 0      | 750    | 0      | 0        | 750                |
| Suitland, MD                   | SHF      | Improve Environmental Conditions, Bldg 21          | 0     | 0      | 0      | 0      | 0      | 150    | 0        | 150                |
| Suitland, MD                   | SHF      | Improve Environmental Conditions, Bldgs... 15/16   | 0     | 0      | 0      | 0      | 0      | 300    | 0        | 300                |
| Suitland, MD                   | SHF      | Repair HVAC, Buildings 22 & 23                     | 0     | 0      | 0      | 0      | 600    | 0      | 0        | 600                |
| Suitland, MD                   | SHF      | Modernize Security System at Garber                | 0     | 0      | 400    | 400    | 0      | 0      | 0        | 800                |
| Suitland, MD                   | SHF      | Horticulture Support Building Stairs               | 0     | 0      | 0      | 95     | 0      | 0      | 0        | 95                 |
| Suitland, MD                   | SHF      | Abate Asbestos Bldg. in 16                         | 0     | 0      | 0      | 0      | 0      | 0      | 2,900    | 2,900              |
| Suitland, MD                   | SHF      | Abate Asbestos Bldg. in 18                         | 0     | 0      | 0      | 0      | 0      | 2,000  | 0        | 2,000              |
| Suitland, MD                   | SHF      | Abate Asbestos Bldg. in 15                         | 0     | 0      | 0      | 0      | 2,000  | 0      | 0        | 2,000              |
| Suitland, MD                   | SHF      | Monitor Asbestos Condition Throughout Site         | 0     | 0      | 0      | 500    | 0      | 0      | 0        | 500                |
| Suitland, MD                   | SHF      | Install Emergency Intercom                         | 0     | 0      | 0      | 0      | 0      | 120    | 0        | 120                |
| Suitland, MD                   | SHF      | Renovate Building 27                               | 0     | 0      | 0      | 0      | 1,500  | 0      | 0        | 1,500              |
| Suitland, MD                   | SHF      | Renovate Buildings 7 & 31                          | 0     | 0      | 150    | 0      | 0      | 0      | 0        | 150                |
| Suitland, MD                   | SHF      | Upgrade Fire Alarm System                          | 0     | 0      | 0      | 500    | 0      | 0      | 0        | 500                |
| Suitland, MD                   | SHF      | Provide Central Fire Pump                          | 0     | 0      | 0      | 750    | 0      | 0      | 0        | 750                |
| Suitland, MD                   | SHF      | Repair Building 10 Roof                            | 0     | 0      | 0      | 500    | 0      | 0      | 0        | 500                |
| Panama                         | STRI     | Improve Communications/OIT Systems                 | 0     | 0      | 225    | 0      | 0      | 0      | 0        | 225                |
| Panama                         | STRI     | Automate Lighting System/ Install Surge Protection | 0     | 0      | 350    | 0      | 0      | 0      | 0        | 350                |
| Panama                         | STRI     | Install Wall/Fence & Guard Booth, Tivoli           | 0     | 0      | 0      | 0      | 0      | 0      | 2,000    | 2,000              |
| Panama                         | STRI     | Repair Tivoli Interior/Exterior                    | 0     | 0      | 0      | 0      | 0      | 0      | 1,500    | 1,500              |
| Panama                         | STRI     | Repair Tivoli Structure                            | 0     | 300    | 0      | 0      | 0      | 0      | 0        | 300                |
| Panama                         | STRI     | Improve BCI Facility                               | 0     | 0      | 150    | 0      | 0      | 0      | 0        | 150                |
| Panama                         | STRI     | Repair Tupper Facade & Roof                        | 0     | 0      | 540    | 275    | 0      | 0      | 0        | 815                |
| Panama                         | STRI     | Repair Exteriors at BCI                            | 0     | 0      | 445    | 0      | 0      | 0      | 0        | 445                |
| Subtotal, Other Revitalization |          |  | 8,170 | 16,150 | 28,650 | 23,550 | 33,000 | 30,700 | 46,950   | 187,170            |

|                      |        |         |         |         |         |         |         |           |
|----------------------|--------|---------|---------|---------|---------|---------|---------|-----------|
| TOTAL REVITALIZATION | 71,670 | 173,222 | 149,650 | 143,150 | 134,200 | 141,500 | 532,550 | 1,345,942 |
|----------------------|--------|---------|---------|---------|---------|---------|---------|-----------|





# SMITHSONIAN INSTITUTION FEDERAL FACILITIES CAPITAL PROGRAM

## Program by Category

\$(000)s

| Campus                    | Location | Project                                | FY04          | FY05          | FY06     | FY07     | FY08     | FY09     | Outyears | FY04-FY12<br>Total |
|---------------------------|----------|--|---------------|---------------|----------|----------|----------|----------|----------|--------------------|
| <b>CONSTRUCTION</b>       |          |  |               |               |          |          |          |          |          |                    |
| DC - Mall                 | NMAI     | Construct Mall Museum (includes 5 FTE) |               |               |          |          |          |          |          | 0                  |
| Suitland, MD              | MSC      | Construct Pod 5 (includes 5 FTE)       | 10,000        | 18,000        | 0        | 0        | 0        | 0        | 0        | 28,000             |
| Tuscon, AZ                | SAO      | VERITAS, Control Building              | 0             | 990           | 0        | 0        | 0        | 0        | 0        | 990                |
| <b>TOTAL CONSTRUCTION</b> |          |  | <b>10,000</b> | <b>18,990</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>28,990</b>      |

## FACILITIES PLANNING & DESIGN

|   |       |   |              |               |               |               |               |               |               |                |
|---|-------|---|--------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| DC - Mall                                     | AIB   | Design  | 0            | 5,000         | 0             | 0             | 0             | 0             | 0             | 5,000          |
| DC - Mall                                     | FGA   | Design Replace/Restore Roof Exterior                        | 0            | 0             | 0             | 0             | 1,000         | 0             | 0             | 1,000          |
| DC - Mall                                     | HMSG  | Design Restore & Waterproof Plaza & Foundation Walls        | 0            | 0             | 0             | 0             | 2,000         | 0             | 0             | 2,000          |
| Suitland, MD                                  | MSC   | Design Pod 3 Renovation                                     | 0            | 1,000         | 0             | 0             | 0             | 0             | 0             | 1,000          |
| Suitland, MD                                  | MSC   | Design Mechanical & Electrical Systems Upgrade              | 0            | 0             | 0             | 0             | 0             | 0             | 4,000         | 4,000          |
| All Facilities                                | MULTI | Facility Planning and Design, Revitalization                | 3,000        | 4,000         | 3,100         | 3,500         | 3,100         | 3,500         | 3,000         | 23,200         |
| All Facilities                                | MULTI | A&M Planning and Design, inc. Const. Planning               | 0            | 600           | 500           | 500           | 600           | 600           | 600           | 3,400          |
| All Facilities                                | MULTI | Real Property and Space Utilization Studies                 | 300          | 250           | 250           | 250           | 300           | 500           | 500           | 2,350          |
| All Facilities                                | MULTI | Comprehensive Facilities Master Development Planning Studie | 1,000        | 1,200         | 1,500         | 1,700         | 1,700         | 1,700         | 2,000         | 10,800         |
| DC - Mall                                     | NASM  | Design Mechanical System, Basement & 3rd Floor              | 0            | 0             | 0             | 0             | 0             | 0             | 4,000         | 4,000          |
| DC - Mall                                     | NMAH  | Design Public Space Renewal                                 | 4,000        | 0             | 0             | 0             | 0             | 0             | 0             | 4,000          |
| DC - Mall                                     | NMAH  | Design Non-Public Space Renewal                             | 0            | 0             | 0             | 0             | 0             | 0             | 5,000         | 5,000          |
| DC - Mall                                     | NMNH  | Design Ongoing Revitalization                               | 0            | 3,000         | 4,000         | 4,000         | 4,000         | 4,000         | 7,000         | 26,000         |
| DC - Rock Creek                               | NZP   | Design Major Revitalization (Africa, Americas, Ape)         | 0            | 6,000         | 2,000         | 0             | 0             | 0             | 0             | 8,000          |
| DC - Rock Creek                               | NZP   | Update Rock Creek Master Plan                               | 0            | 2,000         | 0             | 0             | 0             | 0             | 0             | 2,000          |
| DC - Rock Creek                               | NZP   | Design Ape Renovation                                       | 0            | 0             | 0             | 0             | 0             | 0             | 0             | 0              |
| DC - Rock Creek                               | NZP   | Design Small Mammals Renovation                             | 0            | 0             | 0             | 3,000         | 0             | 0             | 0             | 3,000          |
| DC - Rock Creek                               | NZP   | Design Reptile & Invertebrates Renovation                   | 0            | 0             | 0             | 0             | 3,000         | 0             | 0             | 3,000          |
| DC - Rock Creek                               | NZP   | Continue Design for Revitalization of Major Structures      | 0            | 0             | 0             | 0             | 0             | 6,000         | 2,000         | 8,000          |
| DC - Rock Creek                               | NZP   | Design Mechanical System & Roof                             | 0            | 0             | 0             | 0             | 0             | 0             | 4,000         | 4,000          |
| DC - Mall                                     | QUAD  | Design Major Restoration                                    | 0            | 0             | 0             | 0             | 2,300         | 0             | 0             | 2,300          |
| DC - Lafayette Park                           | RG    | Design Infrastructure Revitalization                        | 0            | 0             | 0             | 0             | 0             | 0             | 2,000         | 2,000          |
| Suitland, MD                                  | SHF   | Design Restoration Project                                  | 0            | 0             | 0             | 0             | 0             | 0             | 5,000         | 5,000          |
| DC - Mall                                     | SIB   |   | 0            | 0             | 0             | 0             | 0             | 0             | 0             | 0              |
| <b>TOTAL FACILITIES PLANNING &amp; DESIGN</b> |       |   | <b>8,300</b> | <b>23,050</b> | <b>11,350</b> | <b>12,950</b> | <b>18,000</b> | <b>16,300</b> | <b>39,100</b> | <b>129,050</b> |

## TOTAL, FACILITIES CAPITAL

|               |                |                |                |                |                |                |                  |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|
| <b>89,970</b> | <b>215,262</b> | <b>161,000</b> | <b>156,100</b> | <b>152,200</b> | <b>157,800</b> | <b>571,650</b> | <b>1,503,982</b> |
|---------------|----------------|----------------|----------------|----------------|----------------|----------------|------------------|



**SMITHSONIAN INSTITUTION**  
**Capital Asset Plan (Exhibit 300) for Revitalization and Construction**  
**FY2005 Budget Submission**

| PART I. A. SUMMARY OF PROJECT INFORMATION   |   |     |                                      |             |
|---|---|-----|--------------------------------------|-------------|
| Location  | Gallery Place, Washington, DC                               |     |                                      |             |
| Program Unit Sponsor  | Smithsonian American Art Museum & National Portrait Gallery |     |                                      |             |
| Account Title   | Facilities Capital, Revitalization                          |     |                                      |             |
| Account Identification Code   | XXXXXXXXXX  |     |                                      |             |
| Name of Project   | Renovate Patent Office Building                             |     |                                      |             |
| Project Number  | 943402  |     |                                      |             |
| Project Partners  |   |     |                                      |             |
| This Project Is:  | New Construction:   |     | Revitalization of Existing Facility: | XXX         |
| Project/Useful segment is funded:   | Incrementally:  | XXX | Fully:                               |             |
| Did the Capital Planning Board approve the project?                               |   |     | Date:                                | 1998        |
| Did the Capital Planning Board approve the current funding proposal?              |   |     | Date:                                | 2001        |
| Did the Smithsonian Board of Regents approve the project?                         |   |     | Date:                                | 2000        |
| Did Congress authorize the project? <i>Authorization for courtyard/auditorium</i> |   |     | Date:                                | August 2003 |

| B. PROJECT BASELINE   |                                    |   |
|---|------------------------------------|---|
| Initial Baseline Date: July 1998  | Date of Baseline Change: June 2000 | Indicate Here if Preliminary:           |
| <p><b>1. Project Scope</b> (specific description of work effort, including square footage involved, historical significance of existing building, project phases if applicable, highlight changes from original baseline):</p> <p>The 165 year-old Patent Office Building (POB), the third oldest public building in the Nation's Capitol, sits on the block bounded by G, F, 7<sup>th</sup> and 9<sup>th</sup> Streets, NW, Washington, DC. Built between 1836 and 1867, the marble, granite and sandstone neoclassical structure was also the site of President Abraham Lincoln's Inaugural Ball. Originally designed to exhibit models of inventions patented in the United States, in 1964 the building was converted to museum space and now houses the Smithsonian American Art Museum and the National Portrait Gallery. The Smithsonian American Art Museum houses paintings, sculpture, graphic art, photography and folk art dedicated to the arts and artists of the United States from colonial times to the present. The National Portrait Gallery exhibits portraits of major figures in American history and culture. The building's four stories and basement cover approximately 30,900 square meters (332,000 square feet) and enclose a central courtyard. The POB is listed on the National Register of Historic Places and is a National Historic Landmark. Average annual visitation for both museums prior to closure was 430,000. Projected annual visitation is two million.</p> <p>Phase I: The project will create a main accessible entrance and improve accessibility throughout the building. It will replace mechanical and electrical equipment, including boilers, pipes, air-handling units, chillers, pumps, electrical transformers, and substations, and the fire pumps with new energy-efficient equipment. It will install a new air-distribution and control system, supply and return air grilles, and temperature and humidity controls by zone. Replacement of the cooling tower will occur and will change the location of the mounting configuration to eliminate leaks. It will repair exterior masonry, replace windows, restore elevators, and improve functionality and access by providing accessible restrooms adjacent to each lobby and in event spaces. It will abate hazardous materials such as CFCs and asbestos, and convert administrative space to public space. In 2000, a decision was made to also relocate some mechanical and electrical equipment to new space beneath the courtyard so that the adjacent space can be used for public programming. Finally, the restoration of interior finishes will occur after installation of new systems and other construction.</p> <p>Phase II: The Institution plans to construct a glass enclosure over the building's courtyard, a catering kitchen for foodservice, a visible art conservation laboratory and a museum store. This work will occur concurrently, but will be funded from private sources.</p> |                                    |   |
| <b>2. Detail of Overall Project Schedule</b>  |                                    | <b>Month &amp; Year (total project)</b> |
| Planning/Design Start Date: <i>All Associated Projects</i>  |                                    | 1994                                    |
| Design Completion Date: <i>Roof: 03/97 Demo: 03/00 Stone &amp; Window: 01/01</i>  |                                    | Ph I: Sept 2002; Ph II: Aug 2004        |
| Construction Start Date: <i>Roof: 11/97 Demo: 04/01 Stone &amp; Window: 11/01</i>   |                                    | May 2003                                |
| Construction Completion Date: <i>Roof: 05/00 Demo: 09/02 Stone &amp; Window: 04/03</i>  |                                    | March 2006                              |
| Building Occupancy Date:  |                                    | May 2006                                |
| Public Opening Date (if applicable):  |                                    | July 2006                               |



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| 3. Detail of Total Project Cost Estimate   |                            | Amount in \$Millions |             |              |
|--|----------------------------|----------------------|-------------|--------------|
| CAPITAL COSTS  |                            | Phase I              | Phase II    | TOTAL        |
| Planning/Design  |                            | 14.7                 | 3.0         | 17.7         |
| Revitalization/Construction (includes art storage during construction)   |                            | 123.5                | 28.0        | 151.5        |
| Contingency  | Percentage: 12.5% of 151.1 | 15.5                 | 3.2         | 18.7         |
| Construction Management  | Percentage: 8% of 170.2    | 11.0                 | 2.3         | 13.3         |
| Building Commissioning   | Percentage: 1% of 170.2    | 1.3                  | 0           | 1.3          |
| <b>TOTAL CAPITAL COSTS:</b>  |                            | <b>166.0</b>         | <b>36.5</b> | <b>202.5</b> |
| Non-capital Costs (fundraising, relocation, one-time occupancy costs, exhibits installation)   |                            |                      | 13.5        | 13.5         |
| <b>TOTAL PROJECT COST</b>  |                            | <b>166.0</b>         | <b>50.0</b> | <b>216</b>   |
| Explanation of Basis/methodology for Cost Estimates (indicate stage of design or other assumptions used)<br>Project cost estimate is based on 95% design completion. Phase I is the revitalization program to be funded from the Facilities Capital account (Federal); Phase II will be privately funded. Drawings and specifications are now 100% complete. |                            |                      |             |              |

| C. SUMMARY OF FUNDING FOR PROJECT STAGES   |                 |                       |              |       |       |       |       |                        |              |
|--|-----------------|-----------------------|--------------|-------|-------|-------|-------|------------------------|--------------|
| \$ Millions (1 decimal place)  | Prior           | FY 04                 | FY 05        | FY 06 | FY 07 | FY 08 | FY 09 | Outyears               | Total        |
| <b>INITIAL PROJECT BASELINE:</b>   | <b>FY: 2003</b> | <b>Request to OMB</b> |              |       |       |       |       | <b>Date: Sept 2001</b> |              |
| FEDERAL Capital Costs  | 93.6            | 38.0                  | 34.4         |       |       |       |       |                        | 166.0        |
| TRUST Capital Costs  | 3.0             | 47.0                  |              |       |       |       |       |                        | 50.0         |
| <b>TOTAL CAPITAL COSTS</b>   |                 |                       |              |       |       |       |       |                        |              |
| Non-Capital Costs  |                 |                       |              |       |       |       |       |                        |              |
| <b>TOTAL PROJECT FUNDS:</b>  | <b>96.6</b>     | <b>85.0</b>           | <b>34.4</b>  |       |       |       |       |                        | <b>216.0</b> |
| <b>PRIOR BUDGET REQUEST</b>  | <b>FY: 2004</b> | <b>Request to OMB</b> |              |       |       |       |       | <b>Date: Sept 2002</b> |              |
| FEDERAL Capital Costs  | 73.6            | 58.0                  | 34.4         |       |       |       |       |                        | 166.0        |
| TRUST Capital Costs  | 11.0            | 25.0                  | .5           |       |       |       |       |                        | 36.5         |
| <b>TOTAL CAPITAL COSTS</b>   | <b>84.6</b>     | <b>83.0</b>           | <b>34.9</b>  |       |       |       |       |                        | <b>202.5</b> |
| Non-Capital Costs  |                 |                       | 13.5         |       |       |       |       |                        | 13.5         |
| <b>TOTAL PROJECT FUNDS:</b>  | <b>84.6</b>     | <b>83.0</b>           | <b>48.4</b>  |       |       |       |       |                        | <b>216.0</b> |
| <b>CURRENT BUDGET REQUEST</b>  | <b>FY: 2005</b> | <b>Request to OMB</b> |              |       |       |       |       | <b>Date: Sept 200</b>  |              |
| FEDERAL Capital Costs  | 73.6            | 48.0                  | 44.4         |       |       |       |       |                        | 166.0        |
| TRUST Capital Costs  | 11.0            | 25.0                  | .5           |       |       |       |       |                        | 36.5         |
| <b>TOTAL CAPITAL COSTS</b>   | <b>84.6</b>     | <b>73.0</b>           | <b>44.9</b>  |       |       |       |       |                        | <b>202.5</b> |
| Non-Capital Costs  |                 |                       | 13.5         |       |       |       |       |                        | 13.5         |
| <b>TOTAL PROJECT FUNDS:</b>  | <b>84.6</b>     | <b>73.0</b>           | <b>58.4</b>  |       |       |       |       |                        | <b>216.0</b> |
| <b>CHANGES (Prior Request to Current Request)</b>  |                 |                       |              |       |       |       |       |                        |              |
| FEDERAL Capital Costs  |                 | -10.0                 | +10.0        |       |       |       |       |                        | 0            |
| TRUST Capital Costs  |                 | 0                     | 0            |       |       |       |       |                        | 0            |
| <b>TOTAL CAPITAL COSTS</b>   |                 | <b>-10.0</b>          | <b>+10.0</b> |       |       |       |       |                        | <b>0</b>     |
| Non-Capital Costs  |                 |                       | 0            |       |       |       |       |                        | 0            |
| <b>TOTAL PROJECT FUNDS:</b>  |                 | <b>-10.0</b>          | <b>+10.0</b> |       |       |       |       |                        | <b>0</b>     |
| <b>Explanation of Baseline Change</b> (detail of factors that affected changed scope, schedule and/or costs):<br>A portion of the work originally planned for FY 2004 was deferred to FY 2005 due to pressing priorities for that budget year. This work includes the fit out of the 1 <sup>st</sup> and 2 <sup>nd</sup> floors of the building. |                 |                       |              |       |       |       |       |                        |              |





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| <b>D. OPERATING COST PROJECTIONS</b>  |  |            |              |
|---|--|------------|--------------|
| ESTIMATED ANNUAL OPERATING COST   | Date of First Full Year Occupancy (FY): 2007 | FTE        | Amount (\$M) |
| Programmatic Costs (Museum Federal and Trust costs)   |  | 266        | 35.0         |
| Facilities Costs (Maintenance, Operations Security & Support):  |  | 129        | 8.2          |
| Central SI Support Costs (Overhead):  |  | 1          | .04          |
| <b>TOTAL ANNUAL OPERATING COST:</b>   |  | <b>396</b> | <b>43.24</b> |
| Explanation of basis/methodology for cost estimates (assumptions used, notes on unit preparing estimates)   |  |            |              |
| <p>These are very preliminary estimates based on square footages and current experience for each activity. Operating costs for the newly renovated and reconfigured building will be refined now that design is complete.</p> |  |            |              |

| E. SUMMARY OF OPERATIONS FUNDING                        |          |      |       |      |                |       |       |      |       |      |       |      |                 |      |          |      |
|---|----------|------|-------|------|----------------|-------|-------|------|-------|------|-------|------|-----------------|------|----------|------|
| \$ Millions (1 decimal place)                           | Prior    |      | FY 04 |      | FY 05          |       | FY 06 |      | FY 07 |      | FY 08 |      | FY 09           |      | Outyears |      |
|   | FTE      | \$   | FTE   | \$   | FTE            | \$    | FTE   | \$   | FTE   | \$   | FTE   | \$   | FTE             | \$   | FTE      | \$   |
| INITIAL OPERATIONS ESTIMATE:                            | FY: 2003 |      |       |      | Request to OMB |       |       |      |       |      |       |      | Date: Sept 2001 |      |          |      |
| TOTAL FEDERAL OPERATING COST:                           | 245      | 28.0 | 247   | 23.2 | 247            | 18.9  | 247   | 18.9 | 247   | 18.9 | 247   | 18.9 | 247             | 18.9 | 247      | 18.9 |
| TOTAL TRUST OPERATING COST:                             |          |      |       |      |                |       |       |      |       |      |       |      |                 |      |          |      |
| TOTAL ANNUAL OPERATING COST:                            | 245      | 28.0 | 247   | 23.2 | 247            | 18.9  | 247   | 18.9 | 247   | 18.9 | 247   | 18.9 | 247             | 18.9 | 247      | 18.9 |
|   |          |      |       |      |                |       |       |      |       |      |       |      |                 |      |          |      |
| PRIOR BUDGET REQUEST                                    | FY: 2004 |      |       |      | Request to OMB |       |       |      |       |      |       |      | Date: Sept 2002 |      |          |      |
| TOTAL FEDERAL OPERATING COST:                           | 160      | 12.0 | 160   | 12.9 | 205            | 27.2  | 350   | 37.3 | 350   | 28.3 | 350   | 27.7 | 350             | 27.7 | 350      | 27.7 |
| TOTAL TRUST OPERATING COST:                             | 21       | 10.2 | 20    | 11.3 | 28             | 11.9  | 38    | 13.0 | 42    | 13.2 | 42    | 13.2 | 42              | 13.2 | 42       | 13.2 |
| TOTAL ANNUAL OPERATING COST:                            | 181      | 22.2 | 180   | 24.2 | 233            | 39.1  | 388   | 50.3 | 392   | 41.5 | 392   | 40.9 | 392             | 40.9 | 392      | 40.9 |
|   |          |      |       |      |                |       |       |      |       |      |       |      |                 |      |          |      |
| CURRENT BUDGET REQUEST                                  | FY: 2005 |      |       |      | Request to OMB |       |       |      |       |      |       |      | Date: Sept 2003 |      |          |      |
| TOTAL FEDERAL OPERATING COST:                           | 160      | 12.0 | 161   | 12.9 | 182            | 16.3  | 354   | 42.4 | 354   | 30.0 | 354   | 29.4 | 354             | 29.4 | 354      | 29.4 |
| TOTAL TRUST OPERATING COST:                             | 21       | 10.2 | 20    | 11.3 | 28             | 11.9  | 38    | 13.0 | 42    | 13.2 | 42    | 13.2 | 42              | 13.2 | 42       | 13.2 |
| TOTAL ANNUAL OPERATING COST:                            | 181      | 22.2 | 181   | 24.2 | 210            | 28.2  | 392   | 55.4 | 396   | 43.2 | 396   | 42.6 | 396             | 42.6 | 396      | 42.6 |
|   |          |      |       |      |                |       |       |      |       |      |       |      |                 |      |          |      |
| CHANGES (Prior Request to Current Request) FEDERAL ONLY |          |      |       |      |                |       |       |      |       |      |       |      |                 |      |          |      |
| TOTAL FEDERAL OPERATING COST:                           | -        | -    | +1    | -    | -23            | -10.9 | +4    | +5.1 | +4    | +1.7 | +4    | +1.7 | +4              | +1.7 | +4       | +1.7 |
| TOTAL TRUST OPERATING COST:                             | -        | -    | -     | -    | -              | -     | -     | -    | -     | -    | -     | -    | -               | -    | -        | -    |
| TOTAL ANNUAL OPERATING COST:                            | -        | -    | +1    | -    | -23            | -10.9 | +4    | +5.1 | +4    | +1.7 | +4    | +1.7 | +4              | +1.7 | +4       | +1.7 |

**Explanation of Change:**

The current schedule calls for reopening the building in FY 2006, instead of FY 2005 as forecast when the FY 2003 OMB budget was prepared. Additional costs for operations of the covered courtyard and auditorium are now included in the estimates, and represent the staff and cost increases reflected beginning in FY 2006.





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**PART II: JUSTIFICATION AND OTHER INFORMATION**

**A. Justification (describe why the project is needed, including specific dates required, programs supported, and alternatives analysis):**

The building's mechanical and electrical systems are more than 30 years old and break down frequently. The inefficient two-pipe heating, ventilation and air conditioning system cannot meet the current heating and cooling loads of the building. Air circulation is inefficient, humidity control is limited, and condensation is a major problem. The cooling tower leaks and the chiller plant contains chlorofluorocarbons (CFCs), which must be phased out to meet environmental laws.

The electrical distribution system is overloaded, inadequate, and unsafe. Clearances around transformers do not meet current code requirements. Switchgear, panel boards, and distribution networks are deteriorated and obsolete. Replacement parts are no longer available.

Other utility systems that are seriously deteriorated include fire protection, plumbing, steam distribution, and communication systems. Some of the fire alarm wiring is original to the building and contributes to system malfunctions. The building's elevators broke down frequently, thereby reducing public access. The building's façade has been damaged by acid rain and air pollution, the window frames are deteriorated and failing, and several interior surfaces have been severely damaged by leaks and condensation. The building's main entrances and most restrooms are not accessible to persons with disabilities and do not meet current codes and standards. Asbestos and lead paint are present throughout the building, and must be abated before repairs can be accomplished.

**B. Project/Program Management** (indicate key staff/organization responsible for this project):

|                                       |  |
|---------------------------------------|--|
| Project Executive (if applicable):    | Sheryl Kolasinski, Director, Office of Project Management, OFEO                  |
| Project Manager:                      | Anna Franz, Office of Project Management, OFEO                                   |
| Design Manager:                       | Harminder Jolly & Joy Jordan, Office of Engineering, Design & Construction, OFEO |
| Construction Manager (Res. Engineer): | Sarah Drumming, Office of Engineering, Design & Construction, OFEO               |
| Program Manager/Liaison & Unit        | Marc Pachter, Director, NPG; Elizabeth Broun, Director, SAAM                     |

**Other Management Plans** (Executive/Steering Committees, etc.)

Meeting quarterly, the POB Oversight Committee includes senior SI, SAAM, NPG, Office of Contracting (OCon), Office of General Counsel (OGC), Office of the Chief Financial Officer (OCFO), Office of Public Affairs, and OFEO management, and others as necessary. The purpose is to provide overall review of project progress and to make policy and financial decisions. Preceding the Oversight Committee meetings, monthly Executive Committee meetings are held, and include project staff as well as working level staff from the museums, OFEO, OCon, Office of Architectural History and Historic Preservation (AHHP), and others as needed, to review construction progress, resolve problems, and plan for building occupation upon completion of construction.

**C. Acquisition Plan** (describe proposed contracting methodology):

Bids for the main construction package, to revitalize the interior of the building, were solicited via a Request for Proposal (RFP) in Commerce Business Daily. Competition was based upon price as well as on the technical ability of offerors. The contract was awarded on a firm fixed price basis for a base construction package, with distinct packages outlined as options for subsequent phases based upon available funding to complete construction.

**PART III: CURRENT STATUS** (describe performance against milestones)

The Gross Demolition Project, which includes the complete removal of mechanical, electrical and plumbing systems, floor tile removal, and abatement of hazardous material was completed on November 15, 2002. The total cost was \$9.3 million.

The Exterior Stone and Window Renovation Project is approximately 84% complete. The contract cost is \$9.2 million. The contractor currently is three months behind schedule and is scheduled to complete construction by August 15, 2003.

The main construction package, to revitalize the interior of the building, was awarded on April 10, 2003, and the original Notice to Proceed (NTP) was issued on April 17, 2003. Following a May 7, 2003, stop work notice, the NTP was issued May 30, 2003. Final completion of construction is anticipated in March 2006, following a 34-month construction process. The opening of the Museum is planned for July 4, 2006. Historic Preservation processes are on-going, with SI as lead agency, NPCA a cooperating agency. SI followed the intent of the National Environmental Policy Act process and, following the August 2002 public and governmental agency review, the completed Environmental Assessment and Finding of No Significant Impact was approved on February 18, 2003.



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| PART I. A. SUMMARY OF PROJECT INFORMATION                            |                                     |     |                                      |                                     |
|--|-------------------------------------|-----|--------------------------------------|-------------------------------------|
| Location   | Chantilly, Virginia, Dulles Airport |     |                                      |                                     |
| Program Unit Sponsor   | National Air and Space Museum       |     |                                      |                                     |
| Account Title  | Construction                        |     |                                      |                                     |
| Account Identification Code  |                                     |     |                                      |                                     |
| Name of Project  | Steven F. Udvar-Hazy Center         |     |                                      |                                     |
| Project Number   | 995301                              |     |                                      |                                     |
| Project Partners   |                                     |     |                                      |                                     |
| This Project Is:   | New Construction:                   | XXX | Revitalization of Existing Facility: |                                     |
| Project/Useful segment is funded:                                    | Incrementally:                      | XXX | Fully:                               |                                     |
| Did the Capital Planning Board approve the project?                  |                                     |     | Date:                                | 1996                                |
| Did the Capital Planning Board approve the current funding proposal? |                                     |     | Date:                                | May 2002                            |
| Did the Smithsonian Board of Regents approve the project?            |                                     |     | Date:                                | 1983                                |
| Did Congress authorize the project?                                  |                                     |     | Design<br>Construction               | Date:<br>Date: 1993<br>October 1996 |

| B. PROJECT BASELINE  |                                     |                               |
|--|-------------------------------------|-------------------------------|
| Initial Baseline Date: January 2001  | Date of Baseline Change: March 2001 | Indicate Here if Preliminary: |
| <p><b>1. Project Scope</b> (specific description of work effort, including square footage involved, historical significance of existing building, project phases if applicable, highlight changes from original baseline):</p> <p>Public Law 103-57, signed on 2 August 1993, authorized the Smithsonian Institution to plan and design an Air and Space Museum extension at Washington Dulles International Airport and authorized appropriations of \$8 million for this purpose. Public Law 104-222, signed on 1 October 1996, authorized the Smithsonian to construct, at no cost to the government, the National Air and Space Museum (NASM) Dulles Center at Washington Dulles International Airport. The Udbvar-Hazy Center will provide the restoration facility capable of preserving the artifacts in the collection. The facility will be located on an approximately 176.5-acre site on Dulles International Airport property near the intersection of Route 28 and Route 50 in northern Virginia. When fully completed, the Udvar-Hazy Center will include 760,000 gross square feet of space for exhibit hangars, restoration shop, collection storage, classrooms, archives, large-format theater, restaurants, museum stores. Over 180 aircraft and 100 spacecraft will be on display, including the Space Shuttle <i>Enterprise</i>, an SR-71 Blackbird reconnaissance aircraft, the Dash 80 prototype of the Boeing 707, the B-17 Swoose, an F-4 Phantom fighter, and the B-29 Superfortress <i>Enola Gay</i>. More than 80% of the collection, most of which has been in storage at the Garber Facility, will be transferred to the Hazy Center. Annual visitation is forecasted in the 3-4 million range.</p> <p>Phase I consists of an aviation hangar and a space hangar; a large-format theater, food court and retail space; a central utilities plant; classrooms; observation tower and public amenities. This portion of the project has been awarded with a project completion date of December 5, 2003. Phase I encompasses 524,000 gross square feet.</p> <p>Phase II construction will consist of the addition of the restoration hangar, an object processing/archives center, study collection storage, and support facilities. Phase II, when constructed, will add an additional 236,000 gross square feet.</p> |                                     |                               |
| <b>2. Detail of Overall Project Schedule</b>   |                                     | Month & Year                  |
| Planning/Design Start Date:  |                                     | 1996                          |
| Design Completion Date:  |                                     | 2000                          |
| Construction Start Date:   |                                     | April 2001                    |
| Construction Completion Date:  |                                     | December 2003 – Phase I       |
| Building Occupancy Date:   |                                     | March 2003 – Phase I          |
| Public Opening Date:   |                                     | December 2003 – Phase I       |





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| 3. Detail of Total Project Cost Estimate   |  | Amount in \$Millions |             |              |
|--|--|----------------------|-------------|--------------|
| CAPITAL COSTS  |  | Phase I              | Phase II    | Total        |
| Planning/Design  |  | 15.0                 |             | 15.0         |
| Revitalization/Construction (includes \$34M site development by Virginia)  |  | 182.4                | 33.3        | 215.7        |
| Contingency  |  | 5.0                  | 2.5         | 7.5          |
| Construction Management  |  | 13.3                 | 2.0         | 15.3         |
| Allowance for Business Activities & Others   |  | 4.1                  |             | 4.1          |
| <b>TOTAL CAPITAL COSTS:</b>  |  | <b>219.8</b>         | <b>37.8</b> | <b>257.6</b> |
| Non-capital Costs (fundraising, relocation, one-time occupancy costs, permits/fees, exhibit installation and Davis-Bacon.  |  | 35.9                 | 18.0        | 53.9         |
| <b>TOTAL PROJECT COST</b>  |  | <b>255.7</b>         | <b>55.8</b> | <b>311.5</b> |
| Explanation of Basis/methodology for Cost Estimates (indicate stage of design or other assumptions used)<br>Design complete, and cost estimates are based on contract awarded, including alternates for Phase II. The Commonwealth of Virginia will provide site development worth approximately \$34 million. |  |                      |             |              |

| C. SUMMARY OF FUNDING FOR PROJECT STAGES  |                 |                       |       |       |       |       |       |                        |              |
|---|-----------------|-----------------------|-------|-------|-------|-------|-------|------------------------|--------------|
| \$ Millions (1 decimal place)   | Prior           | FY 04                 | FY 05 | FY 06 | FY 07 | FY 08 | FY 09 | Outyears               | Total        |
| <b>INITIAL PROJECT BASELINE:</b>  | <b>FY: 2003</b> |                       |       |       |       |       |       | <b>Date: Sept 2001</b> |              |
| FEDERAL Capital Costs   | 8.0             |                       |       |       |       |       |       |                        | 8.0          |
| TRUST Capital Costs   | 245.3           |                       |       |       |       |       |       |                        | 245.3        |
| <b>TOTAL CAPITAL COSTS</b>  | <b>253.3</b>    |                       |       |       |       |       |       |                        | <b>253.3</b> |
| Non-Capital Costs   | 46.0            |                       |       |       |       |       |       |                        | 46.0         |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>299.3</b>    |                       |       |       |       |       |       |                        | <b>299.3</b> |
| <b>PRIOR BUDGET REQUEST</b>   | <b>FY: 2004</b> | <b>Request to OMB</b> |       |       |       |       |       | <b>Date: Sept 2002</b> |              |
| FEDERAL Capital Costs   | 8.0             |                       |       |       |       |       |       |                        | 8.0          |
| TRUST Capital Costs   | 249.0           |                       |       |       |       |       |       |                        | 249          |
| <b>TOTAL CAPITAL COSTS</b>  | <b>257.0</b>    |                       |       |       |       |       |       |                        | <b>257</b>   |
| Non-Capital Costs   | 54.5            |                       |       |       |       |       |       |                        | 54.5         |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>311.5 *</b>  |                       |       |       |       |       |       |                        | <b>311.5</b> |
| * Baseline estimate increased to pay for Davis-Bacon wage rate, which was not included in previous baseline of \$299.5 mil. established in January 2001 Regents' Report.  |                 |                       |       |       |       |       |       |                        |              |
| <b>CURRENT BUDGET REQUEST</b>   | <b>FY: 2005</b> | <b>Request to OMB</b> |       |       |       |       |       | <b>Date: Sept 2003</b> |              |
| FEDERAL Capital Costs   | 8.0             |                       |       |       |       |       |       |                        | 8.0          |
| TRUST Capital Costs   | 211.8           | 37.8                  |       |       |       |       |       |                        | 249.6        |
| <b>TOTAL CAPITAL COSTS</b>  | <b>219.8</b>    | <b>37.8</b>           |       |       |       |       |       |                        | <b>257.6</b> |
| Non-Capital Costs   | 35.9            | 18                    |       |       |       |       |       |                        | 53.9         |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>255.7.</b>   | <b>55.8</b>           |       |       |       |       |       |                        | <b>311.5</b> |
| <b>CHANGES (Prior Request to Current Request)</b>   |                 |                       |       |       |       |       |       |                        |              |
| FEDERAL Capital Costs   |                 |                       |       |       |       |       |       |                        |              |
| TRUST Capital Costs   |                 |                       |       |       |       |       |       |                        |              |
| <b>TOTAL CAPITAL COSTS</b>  |                 |                       |       |       |       |       |       |                        |              |
| TRUST Non-Capital Costs   |                 |                       |       |       |       |       |       |                        |              |
| <b>TOTAL PROJECT FUNDS:</b>   |                 |                       |       |       |       |       |       |                        |              |
| <b>Explanation of Baseline Change</b> (detail of factors that affected changed scope, schedule and/or costs):<br><br>Change from initial baseline due to full costs for Davis-Bacon Act requirements. Due to the current economy and the resulting slowing of fundraising efforts, the Institution has delayed start of Phase II until FY 2004. |                 |                       |       |       |       |       |       |                        |              |



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| <b>D. OPERATING COST PROJECTIONS</b>   |  |           |              |
|--|--|-----------|--------------|
| ESTIMATED ANNUAL OPERATING COST  | Date of First Full Year Occupancy (FY): 2005 | FTE       | Amount (\$M) |
| Programmatic Costs (Museum Federal and Trust costs)  |  | 91        | 8.3          |
| Facilities Costs (Maintenance, Operations Security & Support):   |  | 6         | 8.3          |
| Central SI Support Costs (Overhead):   |  | -         | -            |
| <b>TOTAL ANNUAL OPERATING COST:</b>  |  | <b>97</b> | <b>16.6</b>  |
| Explanation of basis/methodology for cost estimates (assumptions used, notes on unit preparing estimates):<br>Program costs based on staffing levels needed to manage new facility and costs to outsource facilities management services.<br>Facilities costs are based on outsourcing security operations and most current utility costs. |  |           |              |

| E. SUMMARY OF OPERATIONS FUNDING           |          |      |       |      |                |      |       |      |       |      |       |      |                 |      |          |      |
|--|----------|------|-------|------|----------------|------|-------|------|-------|------|-------|------|-----------------|------|----------|------|
| \$ Millions (1 decimal place)              | Prior    |      | FY 04 |      | FY 05          |      | FY 06 |      | FY 07 |      | FY 08 |      | FY 09           |      | Outyears |      |
|  | FTE      | \$   | FTE   | \$   | FTE            | \$   | FTE   | \$   | FTE   | \$   | FTE   | \$   | FTE             | \$   | FTE      | \$   |
| INITIAL OPERATIONS ESTIMATE:               | FY: 2003 |      |       |      | Request to OMB |      |       |      |       |      |       |      | Date: Sept 2001 |      |          |      |
| TOTAL FEDERAL OPERATING COST:              | 72       | 16.0 | 81    | 16.0 | 81             | 16.2 | 81    | 16.0 | 81    | 16.4 | 81    | 16.4 | 81              | 16.4 | 81       | 16.4 |
| TOTAL TRUST OPERATING COST:                | 4        | .4   | 7     | .5   | 7              | .5   | 7     | .5   | 7     | .5   | 7     | .5   | 7               | .5   | 7        | .5   |
| TOTAL ANNUAL OPERATING COST:               | 76       | 16.4 | 88    | 16.5 | 88             | 16.7 | 88    | 16.5 | 88    | 16.9 | 88    | 16.9 | 88              | 16.9 | 88       | 16.9 |
|  |          |      |       |      |                |      |       |      |       |      |       |      |                 |      |          |      |
| PRIOR BUDGET REQUEST                       | FY: 2004 |      |       |      | Request to OMB |      |       |      |       |      |       |      | Date: Sept 2002 |      |          |      |
| TOTAL FEDERAL OPERATING COST:              | 71       | 12.3 | 79    | 19.7 | 83             | 15.9 | 86    | 16.5 | 89    | 16.7 | 91    | 17.9 | 91              | 16.3 | 91       | 16.3 |
| TOTAL TRUST OPERATING COST:                | 4        | .4   | 7     | .5   | 7              | .5   | 7     | .5   | 7     | .5   | 7     | .5   | 9               | .6   | 9        | .6   |
| TOTAL ANNUAL OPERATING COST:               | 75       | 12.7 | 86    | 20.2 | 90             | 16.4 | 93    | 17.0 | 96    | 17.2 | 98    | 18.4 | 100             | 16.9 | 100      | 16.9 |
|  |          |      |       |      |                |      |       |      |       |      |       |      |                 |      |          |      |
| CURRENT BUDGET REQUEST                     | FY: 2005 |      |       |      | Request to OMB |      |       |      |       |      |       |      | Date: Sept 2003 |      |          |      |
| TOTAL FEDERAL OPERATING COST:              | 72       | 12.9 | 80    | 17.7 | 90             | 16.2 | 91    | 17.7 | 91    | 17.9 | 91    | 18.0 | 91              | 18.4 | 91       | 18.4 |
| TOTAL TRUST OPERATING COST:                | 4        | .4   | 7     | .5   | 7              | .5   | 7     | .5   | 7     | .5   | 7     | .5   | 7               | .5   | 7        | .5   |
| TOTAL ANNUAL OPERATING COST:               | 76       | 13.3 | 87    | 18.2 | 97             | 16.7 | 98    | 18.2 | 98    | 18.4 | 98    | 18.5 | 98              | 18.9 | 98       | 18.9 |
|  |          |      |       |      |                |      |       |      |       |      |       |      |                 |      |          |      |
| CHANGES (Prior Request to Current Request) |          |      |       |      |                |      |       |      |       |      |       |      |                 |      |          |      |
| TOTAL FEDERAL OPERATING COST:              | +1       | +6   | +1    | -2.0 | +7             | +3   | +5    | +1.2 | +2    | +1.2 | -     | +1   | -               | +2.0 | -        | +2.0 |
| TOTAL TRUST OPERATING COST:                | -        | -    | -     | -    | -              | -    | -     | -    | -     | -    | -     | -    | -2              | -.1  | -2       | -.1  |
| TOTAL ANNUAL OPERATING COST:               | +1       | +6   | +1    | -2.0 | +7             | +3   | +5    | +1.2 | +2    | +1.2 | -     | +1   | -2              | +1.9 | -2       | +1.9 |

**Explanation of Change:**

Additional staffing and associated costs are planned for FY 2005 and FY 2006 and an increase of maintenance costs are projected for FY 2009.





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**PART II: JUSTIFICATION AND OTHER INFORMATION**

**A. Justification** (describe why the project is needed, including specific dates required, programs supported, and alternatives analysis):

The National Air and Space Museum shall commemorate the national development of aviation and space flight and will educate and inspire the nation by:

- Preserving and displaying aeronautical and space flight equipment and data of historical interest and significance to progress of aviation and space flight.
- Developing educational materials and conducting programs to increase the public's understanding of, and involvement in, the development of aviation and space flight.
- Conducting and disseminating new research in the study of aviation and space flight and their related technologies.

The public opening in December 2003 will celebrate the centennial anniversary of the Wright brothers' famous flight at Kitty Hawk. To achieve the Institution's goal of Public Impact, NASM is focusing its new resources on installing the first exhibits, preliminary educational programs and visitor support services for the new Steven F. Udvar-Hazy Center. The Center will house the Museum's collections and restoration facilities, enabling the Museum to exhibit over 2,600 artifacts, including its largest aircraft and spacecraft. Resources will also be dedicated to providing building management and security for the new facility, to meet the goal of Management Excellence. To meet this challenge NASM is outsourcing these functions, a first on this scale within the Smithsonian Institution.

**B. Project/Program Management** (indicate key staff/organization responsible for this project):

|                                       |  |
|---------------------------------------|--|
| Project Executive (if applicable):    | Sheryl Kolasinski, Director, Office of Project Management, OFEO (Acting)     |
| Project Manager:                      | Donald W. Dormstetter, Office of Project Management, OFEO                    |
| Design Manager:                       | Melinda Humphry-Becker, Office of Engineering, Design and Construction, OFEO |
| Construction Manager (Res. Engineer): | Vince Cogliano, Office of Engineering, Design and Construction, OFEO         |
| Project Coordinator (NASM)            | Lin Ezell, NASM  |

Other Management Plans (Executive/Steering Committees, etc.)

Oversight Committee includes senior SI, NASM, OFEO and Office of Contracting (OCon) staff. It meets as needed to provide overall review of project progress and make financial and policy decisions.

Executive Construction Project Committee includes project staff as well as working level staff from the Museum, OFEO, OCon, and others as needed. It meets monthly to review construction progress, resolve problems, and plan for building occupation and operation upon completion of construction.

**C. Acquisition Plan** (describe proposed contracting methodology):

Bids were solicited via a request for proposal in Commerce Business Daily. Competition was based on price as well as technical ability of offerers. The contract was awarded on a firm fixed price basis for a base construction package with alternates for subsequent phases to complete construction.

**PART III: CURRENT STATUS** (describe performance against milestones)

The project construction is over 86% complete. The Main Hangar is complete and only punch list items remain. The Central Utility Plant is complete with chillers, boilers, switch-gear and fire suppression equipment in place. Piping and wiring for these systems are also complete. Equipment testing has begun. The exterior panels on the theater are complete, glass and Kal-wall are installed on the fuselage. Exterior tile installation is also complete. Parking lot and site access roads are progressing on schedule and the Route 28 interchange construction is scheduled to be complete by October 2003.

NASM has met all construction milestones and is progressing toward beneficial occupancy in the winter of 2003. Over 70 artifacts have arrived and are being installed. The exhibit kiosk, railing and barriers contract was issued in August 2002. The facilities' management outsourcing contract has been signed and staff are on site daily. The security outsourcing contract has been awarded.



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| PART I. A. SUMMARY OF PROJECT INFORMATION                            |  |       |                                      |
|--|--|-------|--------------------------------------|
| Location   | Washington, DC, the National Mall      |       |                                      |
| Program Unit Sponsor   | National Museum of the American Indian |       |                                      |
| Account Title  | Construction                           |       |                                      |
| Account Identification Code  | XXXXXX                                 |       |                                      |
| Name of Project  | NMAI, Mall Museum                      |       |                                      |
| Project Number   | 922307                                 |       |                                      |
| Project Partners   |  |       |                                      |
| This Project Is:   | New Construction:                      | XXX   | Revitalization of Existing Facility: |
| Project/Useful segment is funded:                                    | Incrementally:                         | XXX   | Fully:                               |
| Did the Capital Planning Board approve the project?                  |  | Date: | 1989                                 |
| Did the Capital Planning Board approve the current funding proposal? |  | Date: | Jan 2002                             |
| Did the Smithsonian Board of Regents approve the project?            |  | Date: | 1989                                 |
| Did Congress authorize the project?                                  |  | Date: | Nov 1989                             |

| B. PROJECT BASELINE  |                                     |                                       |
|--|-------------------------------------|---------------------------------------|
| Initial Baseline Date: January 2001  | Date of Baseline Change: April 2001 | Indicate Here if Preliminary:         |
| <p><b>1. Project Scope</b> (specific description of work effort, including square footage involved, historical significance of existing building, project phases if applicable, highlight changes from original baseline):</p> <p>The National Museum of the American Indian Mall Museum is approximately 32,633 gross square meters (351,263 gsf) in size. The building consists of five stories above grade, with two mechanical mezzanine levels, and a basement. It houses a five-story, domed atrium, several large exhibit galleries, a 300-seat theater, a native-foods café, museum shops, and office and support areas. The 1.75 hectare (4.3-acre) site contains several outdoor gathering and performance areas, water features, and a native habitat landscape.</p> <p>The curvilinear design was inspired by natural rock strata formations, eroded by wind and water. The building stone is Kasota, a buff-colored, dolomite limestone quarried in Minnesota, which is complemented by warm gray American Mist granite paving. The stone continues from the exterior to the interior to reinforce the Native American design principle of connection to the landscape and natural world. Other natural building materials, including wood and metal, are dominant throughout the interior.</p> <p>In order to accommodate the phased availability of funds, the construction contract is broken down into the following discrete packages:</p> <p><u>Base Bid</u>: concrete foundation, floor slabs, columns, and roof slab</p> <p><u>Option A</u>: watertight perimeter enclosure (exterior walls, glazing, roof) and installation of most interior mechanical systems</p> <p><u>Option B</u>: fit-out of the basement, ground and second floors and exterior site work and landscaping</p> <p><u>Option C</u>: completion of the building by finishing all work on floors three, four and five</p> |                                     |                                       |
| <b>2. Detail of Overall Project Schedule</b>   |                                     | Month & Year                          |
| Planning/Design Start Date:  |                                     | November 1991                         |
| Design Completion Date:  |                                     | September 2000                        |
| Construction Start Date:   |                                     | September 1999                        |
| Construction Completion Date:  |                                     | July 2004                             |
| Building Occupancy Date:   |                                     | phased: Jan 2004, Apr 2004, July 2004 |
| Public Opening Date (if applicable):   |                                     | September 2004                        |





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| 3. Detail of Total Project Cost Estimate   |                           | Amount in \$Millions |
|--|---------------------------|----------------------|
| <b>CAPITAL COSTS</b>   |                           |                      |
| Planning/Design  |                           | 23.3                 |
| Revitalization/Construction  |                           | 147.7                |
| Contingency  | Percentage: 8% of 147.7M  | 11.8                 |
| Construction Management  | Percentage: 10% of 147.7M | 14.9                 |
| Building Commissioning   | Percentage: 1% of 158M    | 1.6                  |
| <b>TOTAL CAPITAL COSTS:</b>  |                           | 199.3                |
| Non-capital Costs (fundraising, relocation, one-time occupancy costs, exhibits installation)             |                           | 20.0                 |
| <b>TOTAL PROJECT COST</b>  |                           | 219.3                |
| Explanation of Basis/methodology for Cost Estimates (indicate stage of design or other assumptions used) |                           |                      |
| Design complete, bids for all phases received.   |                           |                      |

| C. SUMMARY OF FUNDING FOR PROJECT STAGES   |                 |                            |       |       |       |       |       |                         |       |
|--|-----------------|----------------------------|-------|-------|-------|-------|-------|-------------------------|-------|
| \$ Millions (1 decimal place)  | Prior           | FY 04                      | FY 05 | FY 06 | FY 07 | FY 08 | FY 09 | Outyears                | Total |
| <b>INITIAL PROJECT BASELINE:</b>   | <b>FY: 2002</b> | <b>Request to Congress</b> |       |       |       |       |       | <b>Date: March 2001</b> |       |
| FEDERAL Capital Costs  | 113.3           |                            |       |       |       |       |       |                         | 113.3 |
| TRUST Capital Costs  | 72.4            |                            |       |       |       |       |       |                         | 72.4  |
| <b>TOTAL CAPITAL COSTS</b>   | 185.7           |                            |       |       |       |       |       |                         | 185.7 |
| Non-Capital Costs  |                 | 20.0                       |       |       |       |       |       |                         | 20.0  |
| <b>TOTAL PROJECT FUNDS:</b>  | 185.7           | 20.0                       |       |       |       |       |       |                         | 205.7 |
| <b>PRIOR BUDGET REQUEST</b>  | <b>FY: 2004</b> | <b>Request to OMB</b>      |       |       |       |       |       | <b>Date: Sept 2002</b>  |       |
| FEDERAL Capital Costs  | 113.3           |                            |       |       |       |       |       |                         | 113.3 |
| TRUST Capital Costs  | 86.0            |                            |       |       |       |       |       |                         | 86.0  |
| <b>TOTAL CAPITAL COSTS</b>   | 199.3           |                            |       |       |       |       |       |                         | 199.3 |
| Non-Capital Costs  |                 | 20.0                       |       |       |       |       |       |                         | 20.0  |
| <b>TOTAL PROJECT FUNDS:</b>  | 199.3           | 20.0                       |       |       |       |       |       |                         | 219.3 |
| <b>CURRENT BUDGET REQUEST</b>  | <b>FY: 2005</b> | <b>Request to OMB</b>      |       |       |       |       |       | <b>Date: Sept 2003</b>  |       |
| FEDERAL Capital Costs  | 119.2           |                            |       |       |       |       |       |                         | 119.2 |
| TRUST Capital Costs  | 80.1            |                            |       |       |       |       |       |                         | 80.1  |
| <b>TOTAL CAPITAL COSTS</b>   | 199.3           |                            |       |       |       |       |       |                         | 199.3 |
| Non-Capital Costs  |                 | 20.0                       |       |       |       |       |       |                         | 20.0  |
| <b>TOTAL PROJECT FUNDS:</b>  | 199.3           | 20.0                       |       |       |       |       |       |                         | 219.3 |
| <b>CHANGES (Prior Request to Current Request)</b>  |                 |                            |       |       |       |       |       |                         |       |
| FEDERAL Capital Costs  | +5.9            | 0                          | 0     | 0     | 0     | 0     | 0     | 0                       | +5.9  |
| TRUST Capital Costs  | -5.9            | 0                          | 0     | 0     | 0     | 0     | 0     | 0                       | -5.9  |
| <b>TOTAL CAPITAL COSTS</b>   | 0               | 0                          | 0     | 0     | 0     | 0     | 0     | 0                       | 0     |
| Non-Capital Costs  | 0               | 0                          | 0     | 0     | 0     | 0     | 0     | 0                       | 0     |
| <b>TOTAL PROJECT FUNDS:</b>  | 0               | 0                          | 0     | 0     | 0     | 0     | 0     | 0                       | 0     |
| Explanation of Baseline Change (detail of factors that affected changed scope, schedule and/or costs):   |                 |                            |       |       |       |       |       |                         |       |
| The change from initial baseline reflects actual bids received. The change in the current budget reflects an additional \$5.9 million provided by Congress in FY 2003. |                 |                            |       |       |       |       |       |                         |       |



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| <b>D. OPERATING COST PROJECTIONS</b>  |  |            |              |
|---|--|------------|--------------|
| ESTIMATED ANNUAL OPERATING COST   | Date of First Full Year Occupancy (FY): 2005 | FTE        | Amount (\$M) |
| FY 2006 : Programmatic Costs (Museum Federal and Trust costs)   |  | 186        | 21.0         |
| Facilities Costs (Maintenance, Operations Security & Support, incl. Facilities Management):   |  | 110        | 7.2          |
| Central SI Support Costs (Overhead):  |  | 0          | 0            |
| <b>TOTAL ANNUAL OPERATING COST:</b>   |  | <b>296</b> | <b>28.2</b>  |
| Explanation of basis/methodology for cost estimates (assumptions used, notes on unit preparing estimates):  |  |            |              |
| Programmatic cost estimates prepared by NMAI staff; Facilities & SI Support cost estimates prepared by OFEO, based on design drawings of building. Central SI Support costs do not include staff hired before initial operations estimates shown. |  |            |              |

| <b>E. SUMMARY OF OPERATIONS FUNDING</b>  |                                |      |       |      |                       |      |       |      |       |      |       |      |                        |      |          |
|--|--------------------------------|------|-------|------|-----------------------|------|-------|------|-------|------|-------|------|------------------------|------|----------|
| \$ Millions (1 decimal place)  | Prior                          |      | FY 04 |      | FY 05                 |      | FY 06 |      | FY 07 |      | FY 08 |      | FY 09                  |      | Outyears |
|  | FTE                            | \$   | FTE   | \$   | FTE                   | \$   | FTE   | \$   | FTE   | \$   | FTE   | \$   | FTE                    | \$   | FTE      |
| <b>INITIAL OPERATIONS ESTIMATE:</b>  | <b>FY: 2002</b>                |      |       |      | <b>Request to OMB</b> |      |       |      |       |      |       |      | <b>Date: Nov 2000</b>  |      |          |
| TOTAL FEDERAL OPERATING COST:  | 222                            | 24.6 | 254   | 20.1 | 254                   | 18.2 | 254   | 18.2 | 254   | 18.2 | 254   | 18.2 | 254                    | 18.2 | 254      |
| TOTAL TRUST OPERATING COST:  | Trust data were not collected. |      |       |      |                       |      |       |      |       |      |       |      |                        |      |          |
| TOTAL ANNUAL OPERATING COST:   | 222                            | 24.6 | 254   | 20.1 | 254                   | 18.2 | 254   | 18.2 | 254   | 18.2 | 254   | 18.2 | 254                    | 18.2 | 254      |
| <b>PRIOR BUDGET REQUEST</b>  | <b>FY: 2004</b>                |      |       |      | <b>Request to OMB</b> |      |       |      |       |      |       |      | <b>Date: Sept 2002</b> |      |          |
| TOTAL FEDERAL OPERATING COST:  | 101                            | 17.8 | 199   | 27.6 | 252                   | 21.8 | 251   | 21.7 | 251   | 21.7 | 251   | 21.7 | 251                    | 21.7 | 251      |
| TOTAL TRUST OPERATING COST:  | 4                              | 3.3  | 4     | 3.4  | 4                     | 3.1  | 4     | 3.1  | 4     | 3.1  | 4     | 3.1  | 4                      | 3.1  | 4        |
| TOTAL ANNUAL OPERATING COST:   | 105                            | 21.1 | 203   | 31.0 | 256                   | 24.9 | 255   | 24.8 | 255   | 24.8 | 255   | 24.8 | 255                    | 24.8 | 255      |
| <b>CURRENT BUDGET REQUEST</b>  | <b>FY: 2005</b>                |      |       |      | <b>Request to OMB</b> |      |       |      |       |      |       |      | <b>Date: Sept 2003</b> |      |          |
| TOTAL FEDERAL OPERATING COST:  | 101                            | 17.8 | 199   | 25.8 | 292                   | 25.7 | 292   | 25.1 | 292   | 25.1 | 292   | 25.1 | 292                    | 25.1 | 292      |
| TOTAL TRUST OPERATING COST:  | 4                              | 3.3  | 4     | 3.4  | 4                     | 3.1  | 4     | 3.1  | 4     | 3.1  | 4     | 3.1  | 4                      | 3.1  | 4        |
| TOTAL ANNUAL OPERATING COST:   | 105                            | 21.1 | 203   | 29.2 | 296                   | 28.8 | 296   | 28.2 | 296   | 28.2 | 296   | 28.2 | 296                    | 28.2 | 296      |
| <b>CHANGES (Prior Request to Current Request)</b>  |                                |      |       |      |                       |      |       |      |       |      |       |      |                        |      |          |
| TOTAL FEDERAL OPERATING COST:  | -                              | -    | -     | -1.8 | +40                   | +3.9 | +41   | +3.4 | +41   | +3.4 | +41   | +3.4 | +41                    | +3.4 | +41      |
| TOTAL TRUST OPERATING COST:  | -                              | -    | -     | -    | -                     | -    | -     | -    | -     | -    | -     | -    | -                      | -    | -        |
| TOTAL ANNUAL OPERATING COST:   | -                              | -    | -     | -1.8 | +40                   | +3.9 | +41   | +3.4 | +41   | +3.4 | +41   | +3.4 | +41                    | +3.4 | +41      |
| Explanation of Change:   |                                |      |       |      |                       |      |       |      |       |      |       |      |                        |      |          |
| In FY 2005, the Museum will redirect staff positions from the move function to the Museum's base and will obtain new positions. In Facilities, additional security, operations and maintenance staff will be phased during FY 2004. The FY 2005 request will annualize these positions and complete requirements for full operation of the building. The increases in outyear requirements reflect additional needs identified by the Museum for full functioning of the Museum. |                                |      |       |      |                       |      |       |      |       |      |       |      |                        |      |          |





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**PART II: JUSTIFICATION AND OTHER INFORMATION**

**A. Justification** (describe why the project is needed, including specific dates required, programs supported, and alternatives analysis):  
 Public Law 101-185 established the National Museum of the American Indian (NMAI) in 1989 as a museum within the Smithsonian Institution. The legislation provided for the transfer from New York City of the extensive and extraordinary collection of the Heye Foundation's Museum of the American Indian. It also authorized the construction of three facilities which would together form the NMAI: an exhibition facility at the Alexander Hamilton US Custom House in New York City (the NMAI George Gustav Heye Center); a public exhibition facility on the National Mall in Washington, DC; and a storage and resource facility (the NMAI Cultural Resources Center) at the Smithsonian's Suitland Collections Center in Maryland. As the NMAI's third and final facility, this building will be a centerpiece for public programs—that is, the primary venue for exhibitions, performance, conferences, and other programs serving the general public. The planning and design of the NMAI facilities were and continue to be conceived of and executed with the direct involvement of Native Americans representing a wide cross section of Native peoples of the Western Hemisphere.

**B. Project/Program Management** (indicate key staff/organization responsible for this project):

|                                       |  |
|---------------------------------------|--|
| Project Executive (if applicable):    | Debra Nauta-Rodriguez, Office of Project Management, OFEO                        |
| Project Manager:                      | Debra Nauta-Rodriguez, Office of Project Management, OFEO                        |
| Design Managers:                      | Shelley Harlan, Nelson Kim, Office of Engineering, Design and Construction, OFEO |
| Construction Manager (Res. Engineer): | Paul Brown, Office of Engineering, Design and Construction, OFEO                 |
| Program Manager/Liaison & Unit        | Richard West, Director, NMAI   |

Other Management Plans (Executive/Steering Committees, etc.)  
 Oversight Committee includes senior SI, NMAI, OFEO, and Office of Contracting (OCon) management. It meets as needed to provide overall review of project progress and make financial and policy decisions.  
 Executive Construction Project Committee includes project staff as well as working level staff from the Museum, OFEO, OCon, and others as needed. It meets monthly to review construction progress, resolve problems, and plan for building occupation and operation upon completion of construction.

**C. Acquisition Plan** (describe proposed contracting methodology):

Bids were solicited via a request for proposal in Commerce Business Daily. Competition was based on price as well as technical ability of offerers. The contract was awarded on a firm fixed price basis for a base construction package with three options for subsequent phases to complete construction.

**PART III: CURRENT STATUS** (describe performance against milestones)

Excavation, sheeting, shoring, and dewatering were completed under the Site Preparation Contract in January 2001. The building package was divided into a base bid with several options, devised to follow a critical path construction schedule and anticipated funding stream. The base bid is a foundations and structure package; Option A is the core and shell; Options B and Option C comprise the interior fit-out, furnishings and equipment, and the completion of the landscaping and site work. A construction contract was awarded to Clark/TMR, A Joint Venture, on June 20, 2001. The base bid and the stone portions of Options A & B were exercised in the initial contract phase, and the balance of Options A and B were awarded in February 2002. Option C was split and awarded in November 2002 and April 2003 to complete build-out of the interiors. The construction contract is now fully funded and fundraising for construction is complete. Construction is essentially on schedule with completion projected for July 2004. Beneficial Occupancy is phased to allow exhibit installation to proceed ahead of final construction completion. The National Museum of the American Indian will open in the fall of 2004.



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| PART I. A. SUMMARY OF PROJECT INFORMATION                            |   |     |                                      |            |
|--|---|-----|--------------------------------------|------------|
| Location   | Washington, DC  |     |                                      |            |
| Program Unit Sponsor   | National Zoological Park                                |     |                                      |            |
| Account Title  | Facilities Capital, Revitalization                      |     |                                      |            |
| Account Identification Code  |   |     |                                      |            |
| Name of Project  | NZP, Asia Trail I (formerly Renovate Deer & Tapir Area) |     |                                      |            |
| Project Number   | 00003-02  |     |                                      |            |
| Project Partners   |   |     |                                      |            |
| This Project Is:   | New Construction:                                       |     | Revitalization of Existing Facility: | XXX        |
| Project/Useful segment is funded:                                    | Incrementally:  | XXX | Fully:                               |            |
| Did the Capital Planning Board approve the project?                  |   |     | Date:                                | June 2001  |
| Did the Capital Planning Board approve the current funding proposal? |   |     | Date:                                | April 2003 |
| Did the Smithsonian Board of Regents approve the project?            |   |     | Date:                                | Sept. 2001 |
| Did Congress authorize the project? (If not required, indicate NA)   |   |     | Date:                                | NA         |

| B. PROJECT BASELINE   |                          |                                    |
|---|--------------------------|------------------------------------|
| Initial Baseline Date:  | Date of Baseline Change: | Indicate Here if Preliminary: XXXX |
| <p><b>1. Project Scope</b> (specific description of work effort, including square footage involved, historical significance of existing building, project phases if applicable, highlight changes from original baseline):</p> <p>The National Zoo's Renewal Plan reorganizes and rebuilds the Zoo, grouping animals by their natural geographic locations. As its first major component, the mission of Asia Trail is to create a compelling, Asian themed path from the new Sloth Bear exhibit at the main entrance, to the renovated and expanded Panda House. In accomplishing this mission, the Asia Trail project Phase I will:</p> <ul style="list-style-type: none"> <li>Feature many of the Zoo's most charismatic "stars" in a cohesive immersion experience: sloth bears, clouded leopards, fishing cats, red pandas, Japanese giant salamanders, and giant pandas.</li> <li>Develop the Zoo's master planning objectives of providing ADA access, modernizing infrastructure, and opening up areas of the Zoo now closed to the public.</li> <li>Include state-of-the-art interpretive displays to connect the visitor's on-site experience with current research and conservation efforts at Front Royal and in the field to reinforce the importance of ecology and habitat conservation.</li> </ul> <p>The project will replace currently deteriorated animal facilities as well as replace severely inadequate site utilities. The work includes new water service to permit installation of fire suppression systems and meet the needs of the animals, new high-voltage electric service to increase capacity and replace the existing single phase service, improved sewer and storm water management, new gas service, new security systems, new perimeter fencing and railings, a new fiber-optic communications backbone, and installation of new public walkways that meet ADA guidelines. Existing holding buildings will be replaced with new structures to meet current USDA and AZA animal containment regulations. Holding buildings are designed for energy efficiency and fire suppression systems will reduce the hazard to the animal collection.</p> <p>Once Asia Trail I is complete, Asia Trail II will provide a renovated and expanded adjacent facility for a herd of up to eight adult elephants with adequate year round housing, new elephant yards, amphitheatre, safe containment, re-graded and landscaped edges.</p> |                          |                                    |
| <b>2. Detail of Overall Project Schedule</b>  |                          | Month & Year                       |
| Planning/Design Start Date:   |                          | October 2002                       |
| Design Completion Date:   |                          | October 2003                       |
| Construction Start Date:  |                          | Fall 2003                          |
| Construction Completion Date:   |                          | Spring 2005                        |
| Building Occupancy Date:  |                          | Spring 2005                        |
| Public Opening Date (if applicable):  |                          | Spring 2005                        |





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| 3. Detail of Total Project Cost Estimate  |                         | Amount in \$Millions |
|---|-------------------------|----------------------|
| <b>CAPITAL COSTS</b>  |                         |                      |
| Planning/Design   |                         | 4.7                  |
| Revitalization/Construction   |                         | 26.8                 |
| Contingency   | Percentage: 10.0% of 26 | 2.5                  |
| Construction Management   | Percentage: 6.0% of 26  | 1.5                  |
| Building Commissioning  | Percentage: 1% of 26    | .3                   |
| <b>TOTAL CAPITAL COSTS:</b>   |                         |                      |
| Non-capital Costs (fundraising, relocation, one-time occupancy costs, exhibits installation)  |                         | 3.1                  |
| <b>TOTAL PROJECT COST</b>   |                         | <b>38.9</b>          |
| Explanation of Basis/methodology for Cost Estimates (indicate stage of design or other assumptions used)  |                         |                      |
| Estimated based on experience from recent Zoo projects. The estimate for design is 22.5%, based on the high cost of landscape architecture services, which will be required for a large portion of the project. |                         |                      |

| C. SUMMARY OF FUNDING FOR PROJECT STAGES   |                 |                       |             |       |       |       |       |                        |             |
|--|-----------------|-----------------------|-------------|-------|-------|-------|-------|------------------------|-------------|
| \$ Millions (1 decimal place)  | Prior           | FY 04                 | FY 05       | FY 06 | FY 07 | FY 08 | FY 09 | Outyears               | Total       |
| <b>INITIAL PROJECT BASELINE: PRE</b>   | <b>FY: 2005</b> | <b>Request to OMB</b> |             |       |       |       |       | <b>Date: Sept 2003</b> |             |
| FEDERAL Capital Costs  | 8.2             | 9                     | 15.0        |       |       |       |       |                        | 32.2        |
| TRUST Capital Costs  | .2              | 3.4                   |             |       |       |       |       |                        | 3.6         |
| <b>TOTAL CAPITAL COSTS</b>   | <b>8.4</b>      | <b>12.4</b>           | <b>15.0</b> |       |       |       |       |                        | <b>35.8</b> |
| Non-Capital Costs  |                 | 3.1                   |             |       |       |       |       |                        | 3.1         |
| <b>TOTAL PROJECT FUNDS:</b>  | <b>8.4</b>      | <b>15.5</b>           | <b>15.0</b> |       |       |       |       |                        | <b>38.9</b> |
| <b>PRIOR BUDGET REQUEST</b>  | <b>FY:</b>      | <b>Request to OMB</b> |             |       |       |       |       | <b>Date:</b>           |             |
| FEDERAL Capital Costs  |                 |                       |             |       |       |       |       |                        |             |
| TRUST Capital Costs  |                 |                       |             |       |       |       |       |                        |             |
| <b>TOTAL CAPITAL COSTS</b>   |                 |                       |             |       |       |       |       |                        |             |
| Non-Capital Costs  |                 |                       |             |       |       |       |       |                        |             |
| <b>TOTAL PROJECT FUNDS:</b>  |                 |                       |             |       |       |       |       |                        |             |
| <b>CURRENT BUDGET REQUEST</b>  | <b>FY: 2005</b> | <b>Request to OMB</b> |             |       |       |       |       | <b>Date: Sept 2003</b> |             |
| FEDERAL Capital Costs  | 8.2             | 9.0                   | 15.0        |       |       |       |       |                        | 32.2        |
| TRUST Capital Costs  | .2              | 3.4                   |             |       |       |       |       |                        | 3.6         |
| <b>TOTAL CAPITAL COSTS</b>   | <b>8.4</b>      | <b>12.4</b>           | <b>15.0</b> |       |       |       |       |                        | <b>35.8</b> |
| Non-Capital Costs  |                 | 3.1                   |             |       |       |       |       |                        | 3.1         |
| <b>TOTAL PROJECT FUNDS:</b>  | <b>8.4</b>      | <b>15.5</b>           | <b>15.0</b> |       |       |       |       |                        | <b>38.9</b> |
| <b>CHANGES (Prior Request to Current Request)</b>  |                 |                       |             |       |       |       |       |                        |             |
| FEDERAL Capital Costs  |                 |                       |             |       |       |       |       |                        |             |
| TRUST Capital Costs  |                 |                       |             |       |       |       |       |                        |             |
| <b>TOTAL CAPITAL COSTS</b>   |                 |                       |             |       |       |       |       |                        |             |
| TRUST Non-Capital Costs  |                 |                       |             |       |       |       |       |                        |             |
| <b>TOTAL PROJECT FUNDS:</b>  |                 |                       |             |       |       |       |       |                        |             |
| Explanation of Baseline Change (detail of factors that affected changed scope, schedule and/or costs): |                 |                       |             |       |       |       |       |                        |             |



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| D. OPERATING COST PROJECTIONS  |  |     |              |
|--|--|-----|--------------|
| ESTIMATED ANNUAL OPERATING COST  | Date of First Full Year Occupancy (FY): 06 | FTE | Amount (\$M) |
| Programmatic Costs (Federal and Trust)   |  |     |              |
| Facilities Costs (Operations & Maintenance, Security, Safety):   |  |     |              |
| Central SI Support Costs (Overhead):   |  |     |              |
| <b>TOTAL ANNUAL OPERATING COST:</b>  |  |     | <b>TBD</b>   |
| Explanation of basis/methodology for cost estimates (assumptions used, notes on unit preparing estimates):   |  |     |              |
| No additional resources for facilities operations and maintenance are projected at this time, but estimates will be reevaluated based on final design. |  |     |              |

| E. SUMMARY OF OPERATIONS FUNDING                  |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
|---|----------|----|----------------|----|-------|----|-------|----|-------|----|-------|----|-----------------|----|----------|----|
| \$ Millions (1 decimal place)                     | Prior    |    | FY 03          |    | FY 04 |    | FY 05 |    | FY 06 |    | FY 07 |    | FY 08           |    | Outyears |    |
|   | FTE      | \$ | FTE            | \$ | FTE   | \$ | FTE   | \$ | FTE   | \$ | FTE   | \$ | FTE             | \$ | FTE      | \$ |
| <b>INITIAL OPERATIONS ESTIMATE:</b>               | FY: 2005 |    | Request to OMB |    |       |    |       |    |       |    |       |    | Date: Sept 2003 |    |          |    |
| TOTAL FEDERAL OPERATING COST:                     |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
| TOTAL TRUST OPERATING COST:                       |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
| <b>TOTAL ANNUAL OPERATING COST:</b>               |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
| <b>PRIOR BUDGET REQUEST</b>                       |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
|   | FY:      |    | Request to OMB |    |       |    |       |    |       |    |       |    | Date:           |    |          |    |
| TOTAL FEDERAL OPERATING COST:                     |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
| TOTAL TRUST OPERATING COST:                       |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
| <b>TOTAL ANNUAL OPERATING COST:</b>               |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
| <b>CURRENT BUDGET REQUEST</b>                     |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
|   | FY: 2005 |    | Request to OMB |    |       |    |       |    |       |    |       |    | Date: Sept 2003 |    |          |    |
| TOTAL FEDERAL OPERATING COST:                     |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
| TOTAL TRUST OPERATING COST:                       |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
| <b>TOTAL ANNUAL OPERATING COST:</b>               |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
| <b>CHANGES (Prior Request to Current Request)</b> |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
| TOTAL FEDERAL OPERATING COST:                     |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
| TOTAL TRUST OPERATING COST:                       |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
| <b>TOTAL ANNUAL OPERATING COST:</b>               |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
| Explanation of Change:                            |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |
|   |          |    |                |    |       |    |       |    |       |    |       |    |                 |    |          |    |





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**PART II: JUSTIFICATION AND OTHER INFORMATION**

**A. Justification** (describe why the project is needed, including specific dates required, programs supported, and alternatives analysis):

The Zoo is more than 110 years old and its age and popularity have taken a visible toll. The Zoo's physical environment is deteriorating. Many of our largest creatures—lions, tigers, bears, elephants, giraffes, hippos, rhinos—are housed in our oldest areas. Yet families come to the Zoo primarily to see these species, often called "charismatic mega-vertebrates." The current sloth bear exhibit, for example, was built in the late 1890s and is slated to be replaced in Asia Trail I. The Elephant House, to be renovated and expanded in Asia Trail II, was originally constructed in the 1930s. In addition, Asia Trail will address significant failing areas of the Zoo by developing the Zoo's master planning and renewal objectives of providing complete ADA access, enhanced visitor experiences and the replacement of obsolete and inadequate infrastructure systems with code-compliant mechanical, electrical, plumbing and drainage systems.

**B. Project/Program Management** (indicate key staff/organization responsible for this project):

|  |  |
|--|--|
| Project Executive (if applicable):                           | Thomas Myers, Acting, Office of Project Management OFEO                                  |
| Project Manager:   | Steven Groh, Office of Project Management OFEO   |
| Design Manager:  | Eric Mucklow, Office of Engineering & Construction, OFEO                                 |
| Construction Manager (Res. Engineer):                        | Marc Muller, Office of Engineering & Construction, OFEO                                  |
| Program Manager/Liaison & Unit                               | Lynn Dolnick, Assoc. Dir., Exhibits and Outreach, NZP; Bill Xanten, General Curator, NZP |
| Other Management Plans (Executive/Steering Committees, etc.) |  |

Project committee includes NZP senior staff from Animal Programs, Facilities Management and Construction, Exhibits and Outreach, Friends of the National Zoo, and Office of the Director.

**C. Acquisition Plan** (describe proposed contracting methodology):

Design will be negotiated with A/E firm already pre-qualified by Smithsonian Institution task order process. Construction will be a firm fixed price contract with selection panel.

**PART III: CURRENT STATUS** (describe performance against milestones)

Construction Documents are 95% complete. Discussions are ongoing with Office of Contracting to determine best method to provide the complex and unique requirements to complete design and construction.



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| PART I. A. SUMMARY OF PROJECT INFORMATION                            |  |     |                                      |                  |
|--|--|-----|--------------------------------------|------------------|
| Location   | Washington, DC   |     |                                      |                  |
| Program Unit Sponsor   | National Zoological Park   |     |                                      |                  |
| Account Title  | Facilities Capital, Revitalization   |     |                                      |                  |
| Account Identification Code  |  |     |                                      |                  |
| Name of Project  | NZP, Asia Trail II: Elephants (formerly Phases II & III, Elephant Yards and Holding) |     |                                      |                  |
| Project Number   | 02003-01   |     |                                      |                  |
| Project Partners   | Friends of the National Zoo  |     |                                      |                  |
| This Project Is:   | New Construction:  | XXX | Revitalization of Existing Facility: | XXX              |
| Project/Useful segment is funded:                                    | Incrementally:   | XXX | Fully:                               |                  |
| Did the Capital Planning Board approve the project?                  |  |     |                                      | Date: June 2001  |
| Did the Capital Planning Board approve the current funding proposal? |  |     |                                      | Date: April 2003 |
| Did the Smithsonian Board of Regents approve the project?            |  |     |                                      | Date: Sept. 2001 |
| Did Congress authorize the project? (If not required, indicate NA)   |  |     |                                      | Date: NA         |

| B. PROJECT BASELINE  |                          |                                    |
|--|--------------------------|------------------------------------|
| Initial Baseline Date:   | Date of Baseline Change: | Indicate Here if Preliminary: XXXX |
| <p><b>1. Project Scope</b> (specific description of work effort, including square footage involved, historical significance of existing building, project phases if applicable, highlight changes from original baseline):</p> <p>The National Zoo's Renewal Plan reorganizes and rebuilds the Zoo, grouping animals by their natural geographic locations. As its first major component, the mission of Asia Trail is to create a compelling, Asian themed path from the new Sloth Bear exhibit at the main entrance, to the renovated and expanded Panda House and to a new world-class Elephant House engaging a series of Asian animals by the end of 2007.</p> <p>In accomplishing this mission, the Asia Trail II project will provide a new facility for the long-range commitment to house, breed, and continue important research on a multi-generational herd of up to eight adult Asian elephants. The proposed new facilities, encompassing approximately seven adjacent acres, will provide adequate year round housing, new exhibit yards, safe primary containment, and heavily landscaped perimeters. An innovative elephant trek feature is designed to exercise the animals as well as offer sensory stimulus outside their daily routine. Large pools and multiple enrichment devices in the animal's enclosures will allow the elephants to exhibit behavior traits currently restricted by space limitations. For example, an adult elephant will be able to completely submerge in the largest pool. Accessible areas surrounding the elephant enclosures will let the public observe the elephants and keeper demonstrations with new and exciting interpretive programs.</p> <p>The Zoo's goal is to create a multi-generational herd that will allow studying a population closer in structure to what is found in nature. The Zoo predicts that this will produce more accurate data while promoting the health and welfare of individuals held in captivity. The National Zoo will be one of only a few institutions committed to (or capable of) achieving this goal within the next 20 years. A multi-generational herd will encourage more normal behaviors and interactions among the elephants, and this will be documented with careful scientifically based research on behavior and hormonal analyses.</p> <p>This project will construct two new exhibit yards for elephants and add to and renovate the existing Elephant House with increased interior holding space for cows, calves, and bulls. The project will be constructed in phases to accommodate the existing elephant herd at the National Zoological Park.</p> |                          |                                    |
| <b>2. Detail of Overall Project Schedule</b>   |                          | Month & Year                       |
| Planning/Design Start Date:  |                          | March 2003                         |
| Design Completion Date:  |                          | December 2004                      |
| Construction Start Date:   |                          | September 2005                     |
| Construction Completion Date:  |                          | July 2007                          |
| Building Occupancy Date:   |                          | September 2007                     |
| Public Opening Date (if applicable):   |                          | September 2007                     |





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| 3. Detail of Total Project Cost Estimate   |                         | Amount in \$Millions |
|--|-------------------------|----------------------|
| <b>CAPITAL COSTS</b>   |                         |                      |
| Planning/Design  |                         | 6.5                  |
| Revitalization/Construction  |                         | 54.0                 |
| Contingency  | Percentage: 10% of 54.0 | 5.3                  |
| Construction Management  | Percentage: 6% of 54.0  | 3.2                  |
| Building Commissioning   | Percentage: 1% of 54.0  | .5                   |
| <b>TOTAL CAPITAL COSTS:</b>  |                         | <b>69.5</b>          |
| Non-capital Costs (fundraising, relocation, one-time occupancy costs, exhibits installation)   |                         |                      |
| <b>TOTAL PROJECT COST</b>  |                         | <b>69.5</b>          |
| Explanation of Basis/methodology for Cost Estimates (indicate stage of design or other assumptions used)   |                         |                      |
| Contingency estimate based on experience from recent Zoo projects. The estimate for design is 12.5%, based on the high cost of landscape architecture services, which will be required for a large portion of the project. Construction estimate based on programmatic square foot requirements applied to square foot costs of similar recent Zoo construction. |                         |                      |

| C. SUMMARY OF FUNDING FOR PROJECT STAGES  |                 |                       |             |             |       |       |       |                        |              |
|---|-----------------|-----------------------|-------------|-------------|-------|-------|-------|------------------------|--------------|
| \$ Millions (1 decimal place)   | Prior           | FY 04                 | FY 05       | FY 06       | FY 07 | FY 08 | FY 08 | Outyears               | Total        |
| <b>INITIAL PROJECT BASELINE: PRE</b>  | <b>FY: 2003</b> | <b>Request to OMB</b> |             |             |       |       |       | <b>Date: Sept 2001</b> |              |
| FEDERAL Capital Costs   | 1.5             | 2.0                   | 20.0        | 38.5        |       |       |       |                        | 62.0         |
| TRUST Capital Costs   |                 |                       |             |             |       |       |       |                        |              |
| <b>TOTAL CAPITAL COSTS</b>  | <b>1.5</b>      | <b>2.0</b>            | <b>20.0</b> | <b>38.5</b> |       |       |       |                        | <b>62.0</b>  |
| Non-Capital Costs   |                 |                       |             |             |       |       |       |                        |              |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>1.5</b>      | <b>2.0</b>            | <b>20.0</b> | <b>38.5</b> |       |       |       |                        | <b>62.0</b>  |
| <b>PRIOR BUDGET REQUEST</b>   | <b>FY: 2004</b> | <b>Request to OMB</b> |             |             |       |       |       | <b>Date: Sept 2002</b> |              |
| FEDERAL Capital Costs   | 2.5             | 9.0                   | 32.0        | 30.0        |       |       |       |                        | 73.5         |
| TRUST Capital Costs   |                 |                       |             |             |       |       |       |                        |              |
| <b>TOTAL CAPITAL COSTS</b>  | <b>2.5</b>      | <b>9.0</b>            | <b>32.0</b> | <b>30.0</b> |       |       |       |                        | <b>73.5</b>  |
| Non-Capital Costs   |                 | .5                    | 8.0         |             |       |       |       |                        | 8.5          |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>2.5</b>      | <b>9.5</b>            | <b>40.0</b> | <b>30.0</b> |       |       |       |                        | <b>82.0</b>  |
| <b>CURRENT BUDGET REQUEST</b>   | <b>FY: 2005</b> | <b>Request to OMB</b> |             |             |       |       |       | <b>Date: Sept 2003</b> |              |
| FEDERAL Capital Costs   | 4.0             |                       | 34.0        | 29.0        |       |       |       |                        | 67.0         |
| TRUST Capital Costs   |                 | 2.5                   |             |             |       |       |       |                        | 2.5          |
| <b>TOTAL CAPITAL COSTS</b>  | <b>4.0</b>      | <b>2.5</b>            | <b>34.0</b> | <b>29.0</b> |       |       |       |                        | <b>69.5</b>  |
| Non-Capital Costs   |                 |                       |             |             |       |       |       |                        |              |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>4.0</b>      | <b>2.5</b>            | <b>34.0</b> | <b>29.0</b> |       |       |       |                        | <b>69.5</b>  |
| <b>CHANGES (Prior Request to Current Request)</b>   |                 |                       |             |             |       |       |       |                        |              |
| FEDERAL Capital Costs   | +1.5            | -9.0                  | +2.0        | -1.0        |       |       |       |                        | -6.5         |
| TRUST Capital Costs   |                 | +2.5                  |             |             |       |       |       |                        | +2.5         |
| <b>TOTAL CAPITAL COSTS</b>  | <b>+1.5</b>     | <b>-6.5</b>           | <b>+2.0</b> | <b>-1.0</b> |       |       |       |                        | <b>-4.0</b>  |
| TRUST Non-Capital Costs   |                 | -.5                   | -8.0        |             |       |       |       |                        | -8.5         |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>+1.5</b>     | <b>-7.0</b>           | <b>-6.0</b> | <b>-1.0</b> |       |       |       |                        | <b>-12.5</b> |
| Explanation of Baseline Change (detail of factors that affected changed scope, schedule and/or costs):  |                 |                       |             |             |       |       |       |                        |              |
| The NZP has revised the estimated cost based on new plans for the project, and deferred construction until after initiation of Asia Trail I. Funds originally requested for FY 2004 will be used for Asia Trail I construction. |                 |                       |             |             |       |       |       |                        |              |



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| <b>D. OPERATING COST PROJECTIONS</b>   |  |           |              |
|--|--|-----------|--------------|
| ESTIMATED ANNUAL OPERATING COST  | Date of First Full Year Occupancy (FY): 2008 | FTE       | Amount (\$M) |
| Programmatic Costs (Federal and Trust)   |  | 8         | .6           |
| Facilities Costs (Operations & Maintenance, Security, Safety):   |  | 2         | .2           |
| Central SI Support Costs (Overhead):   |  | 0         | 0            |
| <b>TOTAL ANNUAL OPERATING COST:</b>  |  | <b>10</b> | <b>.8</b>    |
| Explanation of basis/methodology for cost estimates (assumptions used, notes on unit preparing estimates): |  |           |              |
| This is a very preliminary estimate based on current costs for similar space at the Zoo.                   |  |           |              |

| E. SUMMARY OF OPERATIONS FUNDING  |          |    |       |    |                |    |       |    |       |    |       |    |                 |    |          |    |
|---|----------|----|-------|----|----------------|----|-------|----|-------|----|-------|----|-----------------|----|----------|----|
| \$ Millions (1 decimal place)   | Prior    |    | FY 04 |    | FY 05          |    | FY 06 |    | FY 07 |    | FY 08 |    | FY 09           |    | Outyears |    |
|   | FTE      | \$ | FTE   | \$ | FTE            | \$ | FTE   | \$ | FTE   | \$ | FTE   | \$ | FTE             | \$ | FTE      | \$ |
| INITIAL OPERATIONS ESTIMATE:  | FY: 2004 |    |       |    | Request to OMB |    |       |    |       |    |       |    | Date: Sept 2002 |    |          |    |
| TOTAL FEDERAL OPERATING COST:   |          |    |       |    |                |    |       |    | 9     | .7 | 10    | .8 | 10              | .8 | 10       | .8 |
| TOTAL TRUST OPERATING COST:   |          |    |       |    |                |    |       |    | 0     | 0  | 0     | 0  | 0               | 0  | 0        | 0  |
| TOTAL ANNUAL OPERATING COST:  |          |    |       |    |                |    |       |    | 9     | .7 | 10    | .8 | 10              | .8 | 10       | .8 |
|   |          |    |       |    |                |    |       |    |       |    |       |    |                 |    |          |    |
| PRIOR BUDGET REQUEST  | FY: 2004 |    |       |    | Request OMB    |    |       |    |       |    |       |    | Date: Sept 2002 |    |          |    |
| TOTAL FEDERAL OPERATING COST:   |          |    |       |    |                |    |       |    | 9     | .7 | 10    | .8 | 10              | .8 | 10       | .8 |
| TOTAL TRUST OPERATING COST:   |          |    |       |    |                |    |       |    | 0     | 0  | 0     | 0  | 0               | 0  | 0        | 0  |
| TOTAL ANNUAL OPERATING COST:  |          |    |       |    |                |    |       |    | 9     | .7 | 10    | .8 | 10              | .8 | 10       | .8 |
|   |          |    |       |    |                |    |       |    |       |    |       |    |                 |    |          |    |
| CURRENT BUDGET REQUEST  | FY: 2005 |    |       |    | Request OMB    |    |       |    |       |    |       |    | Date: Sept 2003 |    |          |    |
| TOTAL FEDERAL OPERATING COST:   |          |    |       |    |                |    |       |    | 9     | .7 | 10    | .8 | 10              | .8 | 10       | .8 |
| TOTAL TRUST OPERATING COST:   |          |    |       |    |                |    |       |    | 0     | 0  | 0     | 0  | 0               | 0  | 0        | 0  |
| TOTAL ANNUAL OPERATING COST:  |          |    |       |    |                |    |       |    | 9     | .7 | 10    | .8 | 10              | .8 | 10       | .8 |
|   |          |    |       |    |                |    |       |    |       |    |       |    |                 |    |          |    |
| CHANGES (Prior Request to Current Request)  |          |    |       |    |                |    |       |    |       |    |       |    |                 |    |          | 0  |
| TOTAL FEDERAL OPERATING COST:   |          |    |       |    |                |    |       |    |       |    |       |    |                 |    |          | 0  |
| TOTAL TRUST OPERATING COST:   |          |    |       |    |                |    |       |    |       |    |       |    |                 |    |          | 0  |
| TOTAL ANNUAL OPERATING COST:  |          |    |       |    |                |    |       |    |       |    |       |    |                 |    |          | 0  |
|   |          |    |       |    |                |    |       |    |       |    |       |    |                 |    |          |    |
| Explanation of Change:  |          |    |       |    |                |    |       |    |       |    |       |    |                 |    |          |    |
| This is the initial, and very preliminary, estimate of operating costs. Additional requirements may be identified once design of the project is complete. |          |    |       |    |                |    |       |    |       |    |       |    |                 |    |          |    |





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**PART II: JUSTIFICATION AND OTHER INFORMATION**

**A. Justification** (describe why the project is needed, including specific dates required, programs supported, and alternatives analysis):

The Zoo is more than 110 years old and its age and popularity have taken a visible toll. The Zoo's physical environment is deteriorating. Many of the largest creatures—lions, tigers, bears, elephants, giraffes, hippopotamus, and rhinoceros—are housed in the oldest areas. Yet families come to the Zoo primarily to see these species, sometimes called "charismatic mega-vertebrates." The sloth bear exhibit was built in the late 1890s, for example, and the Elephant House in the 1930s.

With the birth of the male elephant in November 2001, NZP is moving towards its goal of housing and exhibiting elephants as recommended by current zoological standards. With the introduction of a male elephant into the collection, housing requirements have changed dramatically. More space, stronger housing and the ability to separate the keeper and the elephant at all times is now required. The current building and yards do not meet any of these requirements. Additionally, the building's mechanical and electrical systems are more than 50 years old and break down frequently. It is not possible to maintain acceptable water quality due the limitations of the pools and plumbing systems. The roof and skylights leak causing deterioration and in turn unsafe conditions for the public, staff and the animals.

The National Zoo has an opportunity to become a leader in elephant management and reproductive studies, both *in situ* and *ex situ*, but that requires a large space to have the animal numbers needed to create a multi-generational herd. Space is a major health and welfare issue for elephants. As ethical concerns are raised about how elephants are maintained in captivity, NZP must lead by example, providing a top-notch facility that shows how much it cares about elephants—enough to build a facility to ensure their well being. Lack of exercise is believed to be a health issue and a cause for the high stillbirth and dystocia ('difficult birthing') rates seen in *ex situ* elephant populations worldwide. Elephants in zoos also are prone to developing arthritis and have foot problems that are due, in large part, to a lack of space for proper exercise. The planned new elephant facility will provide space to ensure that the elephants get adequate exercise.

**B. Project/Program Management** (indicate key staff/organization responsible for this project):

|                                       |  |
|---------------------------------------|--|
| Project Executive (if applicable):    | Tom Myers, Acting, Office of Project Management, OFEO                                    |
| Project Manager:                      | Steven Groh, Office of Project Management, OFEO  |
| Design Manager:                       | Richard Hider, Office of Engineering & Construction, OFEO                                |
| Construction Manager (Res. Engineer): | Marc Muller, Office of Engineering & Construction, OFEO                                  |
| Program Manager/Liaison & Unit        | Lynn Dolnick, Assoc. Dir., Exhibits and Outreach, NZP; Bill Xanten, General Curator, NZP |

Other Management Plans (Executive/Steering Committees, etc.)

Project team includes NZP senior staff from Animal Programs; Office of Facilities, Engineering, and Operations; Exhibits and Outreach; Friends of the National Zoo; Conservation Biology; and the Office of the Director.

**C. Acquisition Plan** (describe proposed contracting methodology):

CD design will be negotiated with A/E firm already pre-qualified by Smithsonian Institution task order process. Construction will be a firm fixed price contract with selection panel.

**PART III: CURRENT STATUS** (describe performance against milestones)

Conceptual design approximately 10% complete. Negotiating design fee with A/E to complete design documents. Preparing scope for separate Environmental Assessment to be conducted concurrently.



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| PART I. A. SUMMARY OF PROJECT INFORMATION                            |   |  |                                      |            |
|--|---|--|--------------------------------------|------------|
| Location   | National Mall, Washington, D.C.                     |  |                                      |            |
| Program Unit Sponsor   | National Museum of American History, Behring Center |  |                                      |            |
| Account Title  | Facilities Capital, Revitalization                  |  |                                      |            |
| Account Identification Code  |   |  |                                      |            |
| Name of Project  | Revitalize NMAH-BC Public Space                     |  |                                      |            |
| Project Number   | 0103101   |  |                                      |            |
| Project Partners   | Behring Foundation                                  |  |                                      |            |
| This Project Is:   | New Construction:                                   |  | Revitalization of Existing Facility: | XX         |
| Project/Useful segment is funded:                                    | Incrementally: XX                                   |  | Fully:                               |            |
| Did the Capital Planning Board approve the project?                  |   |  | Date:                                | May 2002   |
| Did the Capital Planning Board approve the current funding proposal? |   |  | Date:                                | April 2003 |
| Did the Smithsonian Board of Regents approve the project?            |   |  | Date:                                | Sept 2001  |
| Did Congress authorize the project? (If not required, indicate NA)   |   |  | Date:                                | NA         |

| B. PROJECT BASELINE   |                          |                                    |
|---|--------------------------|------------------------------------|
| Initial Baseline Date: August 2002  | Date of Baseline Change: | Indicate Here if Preliminary: XXXX |
| <p><b>1. Project Scope:</b> The Public Space Renewal Project provides a boost in modernizing the National Museum of American History, Behring Center (NMAH) which is eligible for the National Register of Historic Places due to its location on the National Mall. All three main exhibit public floors of the Museum, comprising approximately 30,500 gross square meters (330,000 gsf), are part of this major renewal which redefines visitors experience and modernizes and clarifies circulation and amenities. The two main goals of this project are to enhance the visitors' experience as well as to bring the NMAH to higher building code standards. The scope of work includes upgrade to public restrooms, fire detection and alarm system, life safety egress, fire protection, elevators, escalators, mechanical improvements, new power distribution, exterior hardscape, landscape and physical security of the Museum. In addition to the Public Space Renewal Project the modernization includes four major exhibits endorsed by the Blue Ribbon Commission. Two exhibits, <i>Price of Freedom</i> and <i>Introductory Exhibit</i>, are funded by the Behring Foundation. The other exhibits, <i>America on the Move</i>, <i>Star-Spangled Banner / For Which it Stands</i>, are funded from several sources. The Public Space Renewal Project must be accomplished in coordination with the Museum exhibit renewal program. The project will also be coordinated with the Anti-Terrorism Protection program to reduce the building's vulnerability to attack.</p> <p>Due to incremental funding from both Federal and Trust sources and the desire to keep the Museum open during construction, the project has been phased over a number of years in packages as follows:</p> <ul style="list-style-type: none"> <li>a.) <b>East Wing of the Building</b> – includes replacing escalators; upgrading fire detection/alarm system and connecting it to the Network Command Center; renewal of the second and third floor public restrooms; providing new rescue assistance areas, and correcting life safety / fire protection deficiencies in support of the <i>Price of Freedom</i> exhibit. The <i>Price of Freedom</i> exhibit is scheduled for opening in November 2004.</li> <li>b.) <b>Central Core and West Wing of the Building</b> – includes improving the Flag Hall; renovating the first floor Presidential Reception Suite; upgrading fire detection / alarm system; improving museum lighting and sound on the three main public floors; correcting life safety / fire protection deficiencies; renewal of the public restrooms; providing a new power distribution system; correcting the mechanical system; replacing elevators and escalators; and providing vertical transport between the first and second floor. Also, constructing the South entrance pavilion.</li> <li>c.) <b>Building Perimeter</b> – Includes landscape / hardscape renewal; a new irrigation system; fountains; tour and school bus drop-off; constructing the North entrance pavilion and the security perimeter barrier; and installing architectural finishes within the building.</li> </ul> |                          |                                    |
| <b>2. Detail of Overall Project Schedule</b>  |                          | Month & Year                       |
| Planning/Design Start Date:   |                          | June 2003                          |
| Design Completion Date:   |                          | January 2005                       |
| Construction Start Date:  |                          | March 2004                         |
| Construction Completion Date:   |                          | August 2007                        |
| Building Occupancy Date:  |                          | N/A                                |
| Public Opening Date (if applicable):  |                          | N/A                                |





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| 3. Detail of Total Project Cost Estimate   |                                |  | Amount in \$Millions |
|--|--------------------------------|--|----------------------|
| <b>CAPITAL COSTS</b>   |                                |  |                      |
| Planning/Design  |                                |  | 8.0                  |
| Revitalization/Construction  |                                |  | 62.0                 |
| Contingency  | Percentage: 15% of 62 million  |  | 9.3                  |
| Construction Management  | Percentage: 8.5% of 62 million |  | 5.1                  |
| Building Commissioning   | Percentage: 1% of 62 million   |  | .6                   |
| <b>TOTAL CAPITAL COSTS:</b>  |                                |  | <b>85.0</b>          |
| Non-capital Costs (fundraising, relocation, one-time occupancy costs, exhibits installation)   |                                |  | 0                    |
| <b>TOTAL PROJECT COST</b>  |                                |  | <b>85.0</b>          |
| <b>Explanation of Basis/methodology for Cost Estimates</b> (indicate stage of design or other assumptions used)<br>Estimates are based on preliminary planning for the capital portion of the project. |                                |  |                      |

| C. SUMMARY OF FUNDING FOR PROJECT STAGES  |                 |                       |              |              |              |       |       |                        |             |
|---|-----------------|-----------------------|--------------|--------------|--------------|-------|-------|------------------------|-------------|
| \$ Millions (1 decimal place)   | Prior           | FY 04                 | FY 05        | FY 06        | FY 07        | FY 08 | FY 09 | Outyears               | Total       |
| <b>INITIAL PROJECT BASELINE: prelim.</b>  | <b>FY: 2004</b> | <b>Request to OMB</b> |              |              |              |       |       | <b>Date: Sept 2002</b> |             |
| FEDERAL Capital Costs   |                 | 9.5                   | 11.0         | 22.0         |              |       |       | 7.5                    | 50.0        |
| TRUST Capital Costs   | 3.45            | 31.55                 |              |              |              |       |       |                        | 35.0        |
| <b>TOTAL CAPITAL COSTS</b>  | <b>3.45</b>     | <b>41.05</b>          | <b>11.0</b>  | <b>22.0</b>  |              |       |       | <b>7.5</b>             | <b>85.0</b> |
| Non-Capital Costs   |                 |                       |              |              |              |       |       |                        |             |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>3.45</b>     | <b>41.05</b>          | <b>11.0</b>  | <b>22.0</b>  |              |       |       | <b>7.5</b>             | <b>85.0</b> |
| <b>PRIOR BUDGET REQUEST</b>   | <b>FY: 2004</b> | <b>Request to OMB</b> |              |              |              |       |       | <b>Date: Sept 2002</b> |             |
| FEDERAL Capital Costs   |                 | 9.5                   | 11.0         | 22.0         |              |       |       | 7.5                    | 50.0        |
| TRUST Capital Costs   | 3.45            | 31.55                 |              |              |              |       |       |                        | 35.0        |
| <b>TOTAL CAPITAL COSTS</b>  | <b>3.45</b>     | <b>41.05</b>          | <b>11.0</b>  | <b>22.0</b>  |              |       |       | <b>7.5</b>             | <b>85.0</b> |
| Non-Capital Costs   |                 |                       |              |              |              |       |       |                        |             |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>3.45</b>     | <b>41.05</b>          | <b>11.0</b>  | <b>22.0</b>  |              |       |       | <b>7.5</b>             | <b>85.0</b> |
| <b>CURRENT BUDGET REQUEST</b>   | <b>FY: 2005</b> | <b>Request to OMB</b> |              |              |              |       |       | <b>Date: Sept 2003</b> |             |
| FEDERAL Capital Costs   | 1.0             | 7.5                   | 15.0         | 23.0         | 3.5          |       |       |                        | 50.0        |
| TRUST Capital Costs   |                 |                       | 15.0         | 10.0         | 10.0         |       |       |                        | 35.0        |
| <b>TOTAL CAPITAL COSTS</b>  | <b>1.0</b>      | <b>7.5</b>            | <b>30.0</b>  | <b>33.0</b>  | <b>13.5</b>  |       |       |                        | <b>85.0</b> |
| Non-Capital Costs   |                 |                       |              |              |              |       |       |                        |             |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>1.0</b>      | <b>7.5</b>            | <b>30.0</b>  | <b>33.0</b>  | <b>13.5</b>  |       |       |                        | <b>85.0</b> |
| <b>CHANGES (Prior Request to Current Request)</b>   |                 |                       |              |              |              |       |       |                        |             |
| FEDERAL Capital Costs   | +1.0            | -2.0                  | +4.0         | +1.0         | +3.5         |       |       | -7.5                   | 0           |
| TRUST Capital Costs   | -3.45           | -31.55                | +15.0        | +10.0        | +10.0        |       |       |                        | 0           |
| <b>TOTAL CAPITAL COSTS</b>  | <b>-2.45</b>    | <b>-33.55</b>         | <b>+19.0</b> | <b>+11.0</b> | <b>+13.5</b> |       |       | <b>-7.5</b>            | <b>0</b>    |
| Non-Capital Costs   |                 |                       |              |              |              |       |       |                        |             |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>-2.45</b>    | <b>-33.55</b>         | <b>+19.0</b> | <b>+11.0</b> | <b>+13.5</b> |       |       | <b>-7.5</b>            | <b>0</b>    |
| <b>Explanation of Baseline Change</b> (detail of factors that affected changed scope, schedule and/or costs):<br>The FY 2004 estimate was lowered from the initial baseline due to other pressing SI priorities for that budget year; the phases of the project were adjusted, with Federal and trust funds aligned to meet the new plan. Funds were allocated in FY 2003 from the Capital account for the planning and design phase of Package I, to support the public space renovation and avoid future construction interruptions in the East wing third floor. |                 |                       |              |              |              |       |       |                        |             |





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| D. OPERATING COST PROJECTIONS  |   |     |              |
|--|---|-----|--------------|
| ESTIMATED ANNUAL OPERATING COST  | Date of First Full Year Occupancy (FY): | FTE | Amount (\$M) |
| Programmatic Costs (Federal and Trust)   |   |     | TBD          |
| Facilities Costs (Operations & Maintenance, Security, Safety):   |   |     | TBD          |
| Central SI Support Costs (Overhead):   |   |     | TBD          |
| <b>TOTAL ANNUAL OPERATING COST:</b>  |   |     | <b>TBD</b>   |
| <b>Explanation of basis/methodology for cost estimates</b> (assumptions used, notes on unit preparing estimates):<br><br>Estimates of future operating costs will be completed once more planning and design has been completed. |   |     |              |

| E. SUMMARY OF OPERATIONS FUNDING                  |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
|---|------------|------------------------------------|------------------------------------|----|-------|----|-------|----|-------|----|-------|----|-------|----|----------|--------------|--------------|--|
| \$ Millions (1 decimal place)                     | Prior      |                                    | FY 04                              |    | FY 05 |    | FY 06 |    | FY 07 |    | FY 08 |    | FY 08 |    | Outyears |              |              |  |
|   | FTE        | \$                                 | FTE                                | \$ | FTE   | \$ | FTE   | \$ | FTE   | \$ | FTE   | \$ | FTE   | \$ | FTE      | \$           |              |  |
| <b>INITIAL OPERATIONS ESTIMATE:</b>               | <b>FY:</b> |                                    | <b>Request to OMB or Congress:</b> |    |       |    |       |    |       |    |       |    |       |    |          |              | <b>Date:</b> |  |
| TOTAL FEDERAL OPERATING COST:                     |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| TOTAL TRUST OPERATING COST:                       |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| <b>TOTAL ANNUAL OPERATING COST:</b>               |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| <b>PRIOR BUDGET REQUEST</b>                       |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| <b>FY:</b>  |            | <b>Request to OMB or Congress:</b> |                                    |    |       |    |       |    |       |    |       |    |       |    |          | <b>Date:</b> |              |  |
| TOTAL FEDERAL OPERATING COST:                     |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| TOTAL TRUST OPERATING COST:                       |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| <b>TOTAL ANNUAL OPERATING COST:</b>               |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| <b>CURRENT BUDGET REQUEST</b>                     |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| <b>FY:</b>  |            | <b>Request to OMB or Congress:</b> |                                    |    |       |    |       |    |       |    |       |    |       |    |          | <b>Date:</b> |              |  |
| TOTAL FEDERAL OPERATING COST:                     |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| TOTAL TRUST OPERATING COST:                       |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| <b>TOTAL ANNUAL OPERATING COST:</b>               |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| <b>CHANGES (Prior Request to Current Request)</b> |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| TOTAL FEDERAL OPERATING COST:                     |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| TOTAL TRUST OPERATING COST:                       |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| <b>TOTAL ANNUAL OPERATING COST:</b>               |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |
| <b>Explanation of Change:</b><br><br>             |            |                                    |                                    |    |       |    |       |    |       |    |       |    |       |    |          |              |              |  |



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**PART II: JUSTIFICATION AND OTHER INFORMATION**

**A. Justification** (describe why the project is needed, including specific dates required, programs supported, and alternatives analysis):

The fire detection and alarm system is outdated and requires excessive maintenance. The public restrooms are outdated, do not meet code in fixture quantity, and are not fully accessible. Public circulation areas, amenities, lobbies, seating, telephones and secure coat check facilities are worn and in disrepair. The elevators are not fully accessible and are not all on emergency power. The escalators are reaching the end of their useful life. Paths of emergency egress are not clearly defined creating life safety hazards for the public, staff and their families. Fire separation doors are a life safety hazard and require excessive maintenance. Areas of rescue assistance for the disabled are needed. The deficiencies in the mechanical system have caused extreme variations in the building humidity. Steam condensate piping and pressure reducing valve stations are in poor condition, and transformer vaults are not air conditioned, threatening power failures due to heat. Leaks from the mechanical system requires constant maintenance and threaten irreparable moisture damage to the Museum collections. Site landscaping, hardscape and special features, such as the west reflecting pool, are in disrepair, are safety hazards and need renewal. In addition, the Museum lacks of a security perimeter barrier against terrorist threats as well as a good screening system for visitors and vehicles as part of the new Smithsonian Institution security initiative.

**B. Project/Program Management** (indicate key staff/organization responsible for this project):

|                                       |  |
|---------------------------------------|--|
| Project Executive (if applicable):    | Pedro I. Colon, Office of Project Management, OFEO                     |
| Project Manager:                      | TBD  |
| Design Manager:                       | Santiago Caballero, Office of Engineering, Design & Construction, OFEO |
| Construction Manager (Res. Engineer): | Curtis Heckelman, Office of Engineering, Design & Construction, OFEO   |
| Program Manager/Liaison & Unit        | Randall Inouye, National Museum of American History                    |

**Other Management Plans** (Executive/Steering Committees, etc.)

To be determined.

**C. Acquisition Plan** (describe proposed contracting methodology):

The A-E, Skidmore Owings & Merrill is teamed with a construction contractor, Turner Construction, for a design / build delivery system. Details of contract structure to be determined.

**PART III: CURRENT STATUS** (describe performance against milestones)

Survey / review of existing conditions, Schematic Design and Design Development Phase (35%) for Package I only has been awarded to A-E, Skidmore Owings & Merrill. The 35% Design Development Phase is scheduled for completion in December 2003.



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| PART I. A. SUMMARY OF PROJECT INFORMATION  |  |     |                                      |                |
|--|--|-----|--------------------------------------|----------------|
| Location   | Suitland, Maryland                       |     |                                      |                |
| Program Unit Sponsor   | National Museum of Natural History       |     |                                      |                |
| Account Title  | Facilities Capital, Construction         |     |                                      |                |
| Account Identification Code  |  |     |                                      |                |
| Name of Project  | Construction Museum Support Center Pod 5 |     |                                      |                |
| Project Number   | 0230101                                  |     |                                      |                |
| Project Partners   |  |     |                                      |                |
| This Project Is:   | New Construction:                        | XXX | Revitalization of Existing Facility: |                |
| Project/Useful segment is funded:  | Incrementally:                           | XXX | Fully:                               |                |
| Did the Capital Planning Board approve the project?                                      |  |     | Date:                                | January 2002   |
| Did the Capital Planning Board approve the current funding proposal?                     |  |     | Date:                                | April 2003     |
| Did the Smithsonian Board of Regents approve the project? (If not required, indicate NA) |  |     | Date:                                | September 2001 |
| Did Congress authorize the project? (If not required, indicate NA)                       |  |     | Date:                                | August 2003    |

| B. PROJECT BASELINE   |                          |                                    |
|---|--------------------------|------------------------------------|
| Initial Baseline Date:  | Date of Baseline Change: | Indicate Here if Preliminary: XXXX |
| <p><b>1. Project Scope</b> (specific description of work effort, including square footage involved, historical significance of exhibiting building, project phases if applicable, highlight changes from original baseline):</p> <p>The <b>preliminary scope</b> of the project includes the following elements:</p> <ul style="list-style-type: none"> <li>120,000 gross square foot addition to Museum Support Center (MSC) for storage of animal and botanical specimens preserved in alcohol now located in National Museum of Natural History on the Mall and in MSC Pod 3. The new pod will contain 3 levels for storage. The height will be determined based upon the requirement to provide appropriate space above and around the containers to provide adequate ventilation. The design of Pod 5 will accommodate existing shelving systems utilized by the Museum, as well as new shelving and compactor systems that are suitable for use with this kind of collection. Purchase of new equipment and relocation of existing shelving is included in the project.</li> <li>Laboratory/research space of approximately 42,000 gross square feet will provide space for staff working with the collections in Pod 5.</li> <li>The utility and access "street" will be extended from the existing building to connect Pod 5 to the rest of the building, as well as to provide a buffer between the storage pod and offices and laboratories.</li> <li>A loading dock will provide direct access to the new storage space.</li> </ul> <p>The new pod is in accordance with the approved master plan for the Suitland campus. The estimated \$28 million cost to construct and equip the building will be further refined and a baseline (scope, schedule and budget) established once the building has been designed to the 35% stage.</p> |                          |                                    |
| <b>2. Detail of Overall Project Schedule</b>  |                          | Month & Year                       |
| Planning/Design Start Date:   |                          | August 2003                        |
| Design Completion Date:   |                          | June 2004                          |
| Construction Start Date:  |                          | August 2004                        |
| Construction Completion Date:   |                          | March 2006                         |
| Building Occupancy Date:  |                          | April 2006                         |
| Public Opening Date (if applicable):  |                          | N/A                                |





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| 3. Detail of Total Project Cost Estimate  |                         |  | Amount in \$Millions |
|---|-------------------------|--|----------------------|
| <b>CAPITAL COSTS</b>  |                         |  |                      |
| Planning/Design   |                         |  | 2.4                  |
| Revitalization/Construction   |                         |  | 23.5                 |
| Contingency   | Percentage: 10% of 23.5 |  | 2.4                  |
| Construction Management   | Percentage: 8% of 23.5  |  | 1.9                  |
| Building Commissioning  | Percentage: 1% of 23.5  |  | 0.2                  |
| <b>TOTAL CAPITAL COSTS:</b>   |                         |  | <b>30.4</b>          |
| Non-capital Costs (fundraising, relocation, one-time occupancy costs, exhibits installation)                              |                         |  | 0                    |
| <b>TOTAL PROJECT COST</b>   |                         |  | <b>30.4</b>          |
| Explanation of Basis/methodology for Cost Estimates (indicate stage of design or other assumptions used)                  |                         |  |                      |
| Preliminary estimate based on approximate per square foot cost of \$150 for construction and equipping of similar spaces. |                         |  |                      |

| C. SUMMARY OF FUNDING FOR PROJECT STAGES   |                 |                       |              |       |       |       |       |                        |             |
|--|-----------------|-----------------------|--------------|-------|-------|-------|-------|------------------------|-------------|
| \$ Millions (1 decimal place)  | Prior           | FY 04                 | FY 05        | FY 06 | FY 07 | FY 08 | FY 09 | Outyears               | Total       |
| <b>INITIAL PROJECT BASELINE:</b>   | <b>FY: 2003</b> | <b>Request to OMB</b> |              |       |       |       |       | <b>Date: Sept 2001</b> |             |
| FEDERAL Capital Costs  | 2.0             | 23.5                  | 2.8          |       |       |       |       |                        | 28.3        |
| TRUST Capital Costs  |                 |                       |              |       |       |       |       |                        |             |
| <b>TOTAL CAPITAL COSTS</b>   |                 |                       |              |       |       |       |       |                        |             |
| Non-Capital Costs  |                 |                       |              |       |       |       |       |                        |             |
| <b>TOTAL PROJECT FUNDS:</b>  | <b>2.0</b>      | <b>23.5</b>           | <b>2.8</b>   |       |       |       |       |                        | <b>28.3</b> |
| <b>PRIOR BUDGET REQUEST</b>  | <b>FY: 2004</b> | <b>Request to OMB</b> |              |       |       |       |       | <b>Date: Sept 2002</b> |             |
| FEDERAL Capital Costs  | 2.0             | 22.0                  | 6.0          |       |       |       |       |                        | 30.0        |
| TRUST Capital Costs  |                 |                       |              |       |       |       |       |                        |             |
| <b>TOTAL CAPITAL COSTS</b>   | <b>2.0</b>      | <b>22.0</b>           | <b>6.0</b>   |       |       |       |       |                        | <b>30.0</b> |
| Non-Capital Costs  |                 |                       |              |       |       |       |       |                        |             |
| <b>TOTAL PROJECT FUNDS:</b>  | <b>2.0</b>      | <b>22.0</b>           | <b>6.0</b>   |       |       |       |       |                        | <b>30.0</b> |
| <b>CURRENT BUDGET REQUEST</b>  | <b>FY: 2005</b> | <b>Request to OMB</b> |              |       |       |       |       | <b>Date: Sept 2003</b> |             |
| FEDERAL Capital Costs  | 2.4             | 10.0                  | 18.0         |       |       |       |       |                        | 30.4        |
| TRUST Capital Costs  |                 |                       |              |       |       |       |       |                        |             |
| <b>TOTAL CAPITAL COSTS</b>   | <b>2.4</b>      | <b>10.0</b>           | <b>18.0</b>  |       |       |       |       |                        | <b>30.4</b> |
| Non-Capital Costs  |                 |                       |              |       |       |       |       |                        |             |
| <b>TOTAL PROJECT FUNDS:</b>  | <b>2.4</b>      | <b>10.0</b>           | <b>18.0</b>  |       |       |       |       |                        | <b>30.4</b> |
| <b>CHANGES (Prior Request to Current Request)</b>  |                 |                       |              |       |       |       |       |                        |             |
| FEDERAL Capital Costs  | +4              | -12.0                 | +12.0        |       |       |       |       |                        | +4          |
| TRUST Capital Costs  |                 |                       |              |       |       |       |       |                        |             |
| <b>TOTAL CAPITAL COSTS</b>   | <b>+4</b>       | <b>-12.0</b>          | <b>+12.0</b> |       |       |       |       |                        | <b>+4</b>   |
| Non-Capital Costs  |                 |                       |              |       |       |       |       |                        |             |
| <b>TOTAL PROJECT FUNDS:</b>  | <b>+4</b>       | <b>-12.0</b>          | <b>+12.0</b> |       |       |       |       |                        | <b>+4</b>   |
| Explanation of Baseline Change (detail of factors that affected changed scope, schedule and/or costs):<br>The prior year estimate increased based on the actual design contract award. An amount of \$2.4 million was reprogrammed from RR&A in FY 2003 to cover the design cost. The FY 2004 estimate was lowered from the initial request to match expected placement of work in each of the fiscal years. The Institution will construction and equip the building in two years as planned. |                 |                       |              |       |       |       |       |                        |             |





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| D. OPERATING COST PROJECTIONS  |  |          |              |
|--|--|----------|--------------|
| ESTIMATED ANNUAL OPERATING COST  | Date of First Full Year Occupancy (FY): 2007 | FTE      | Amount (\$M) |
| Programmatic Costs (Museum Federal and Trust costs)  |  | 0        | 0            |
| Facilities Costs (Maintenance, Operations Security & Support):   |  | 3        | .6           |
| Central SI Support Costs (Overhead):   |  | 0        | 0            |
| <b>TOTAL ANNUAL OPERATING COST:</b>  |  | <b>3</b> | <b>.6</b>    |
| Explanation of basis/methodology for cost estimates (assumptions used, notes on unit preparing estimates):   |  |          |              |
| Preliminary estimates, to be revised as design of the building progresses. Future estimates will include programmatic costs, and facilities costs, including security and other facilities staff, one time costs for furnishings and equipment, and utilities. |  |          |              |

| E. SUMMARY OF OPERATIONS FUNDING           |          |    |       |    |                 |    |       |    |       |    |       |    |                 |    |          |    |
|--|----------|----|-------|----|-----------------|----|-------|----|-------|----|-------|----|-----------------|----|----------|----|
| \$ Millions (1 decimal place)              | Prior    |    | FY 04 |    | FY 05           |    | FY 06 |    | FY 07 |    | FY 08 |    | FY 09           |    | Outyears |    |
|  | FTE      | \$ | FTE   | \$ | FTE             | \$ | FTE   | \$ | FTE   | \$ | FTE   | \$ | FTE             | \$ | FTE      | \$ |
| INITIAL OPERATIONS ESTIMATE:               | FY: 2004 |    |       |    | Request to OMB: |    |       |    |       |    |       |    | Date: Sept 2002 |    |          |    |
| TOTAL FEDERAL OPERATING COST:              |          |    |       |    |                 | .2 | 3     | .8 | 3     | .6 | 3     | .6 | 3               | .6 | 3        | .6 |
| TOTAL TRUST OPERATING COST:                |          |    |       |    |                 |    |       |    |       |    |       |    |                 |    |          |    |
| TOTAL ANNUAL OPERATING COST:               |          |    |       |    |                 | .2 | 3     | .8 | 3     | .6 | 3     | .6 | 3               | .6 | 3        | .6 |
|  |          |    |       |    |                 |    |       |    |       |    |       |    |                 |    |          |    |
| PRIOR BUDGET REQUEST                       | FY: 2004 |    |       |    | Request to OMB: |    |       |    |       |    |       |    | Date: Sept 2002 |    |          |    |
| TOTAL FEDERAL OPERATING COST:              |          |    |       |    |                 | .2 | 3     | .8 | 3     | .6 | 3     | .6 | 3               | .6 | 3        | .6 |
| TOTAL TRUST OPERATING COST:                |          |    |       |    |                 |    |       |    |       |    |       |    |                 |    |          |    |
| TOTAL ANNUAL OPERATING COST:               |          |    |       |    |                 | .2 | 3     | .8 | 3     | .6 | 3     | .6 | 3               | .6 | 3        | .6 |
|  |          |    |       |    |                 |    |       |    |       |    |       |    |                 |    |          |    |
| CURRENT BUDGET REQUEST                     | FY: 2005 |    |       |    | Request to OMB: |    |       |    |       |    |       |    | Date: Sept 2003 |    |          |    |
| TOTAL FEDERAL OPERATING COST:              |          |    |       |    |                 |    | 3     | .8 | 3     | .6 | 3     | .6 | 3               | .6 | 3        | .6 |
| TOTAL TRUST OPERATING COST:                |          |    |       |    |                 |    |       |    |       |    |       |    |                 |    |          |    |
| TOTAL ANNUAL OPERATING COST:               |          |    |       |    |                 |    | 3     | .8 | 3     | .6 | 3     | .6 | 3               | .6 | 3        | .6 |
|  |          |    |       |    |                 |    |       |    |       |    |       |    |                 |    |          |    |
| CHANGES (Prior Request to Current Request) |          |    |       |    |                 |    |       |    |       |    |       |    |                 |    |          |    |
| TOTAL FEDERAL OPERATING COST:              |          |    |       |    |                 |    |       |    |       |    |       |    |                 |    |          |    |
| TOTAL TRUST OPERATING COST:                |          |    |       |    |                 |    |       |    |       |    |       |    |                 |    |          |    |
| TOTAL ANNUAL OPERATING COST:               |          |    |       |    |                 |    |       |    |       |    |       |    |                 |    |          |    |
|  |          |    |       |    |                 |    |       |    |       |    |       |    |                 |    |          |    |
| Explanation of Change:                     |          |    |       |    |                 |    |       |    |       |    |       |    |                 |    |          |    |



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**PART II: JUSTIFICATION AND OTHER INFORMATION**

**A. Justification** (describe why the project is needed, including specific dates required, programs supported, and alternatives analysis):

The design and construction of Pod 5 is the Smithsonian's highest priority safety and security project. The Smithsonian has the world's largest collection of animal and botanical specimens preserved in alcohol. This irreplaceable collection is at risk of total loss because it is stored in space at the NMNH building on the Mall that does not meet the National Fire Codes. In addition, the events of September 11, 2001 have put a higher level of emphasis and increased necessity on proceeding with this project.

Renovating the existing space in the Mall Museum to become code compliant can only be achieved through extraordinarily disruptive and costly means. The resultant space would only house a fraction of the collections now located on the Mall due to the 500 square foot maximum for each storage room called for in the National Fire Codes. The safest solution is the construction of a fifth pod at the Museum Support Center in Suitland, where security inside the perimeter fencing provides the lowest risk. The fifth pod would effectively isolate the alcohol collections from vulnerable, less volatile collections in nearby existing pods.

**B. Project/Program Management** (indicate key staff/organization responsible for this project):

|                                       |  |
|---------------------------------------|--|
| Project Executive (if applicable):    |  |
| Project Manager:                      | L. D. Heacock, Office of Project Management, OFEO                  |
| Design Manager:                       | Diane Crisen, Office of Engineering, Design and Construction, OFEO |
| Construction Manager (Res. Engineer): | To Be Determined   |
| Program Manager/Liaison & Unit        | Jerome Conlon, Asst. Dir. For Facilities Operations, NMNH          |

Other Management Plans (Executive/Steering Committees, etc.)

The NMNH has formed a Pod 5 Executive Committee consisting of Jerome Conlon, Elizabeth Dietrich (Move Coordination Office) and senior representatives of from the Fishes, Invertebrate Zoology and Vertebrate Zoology departments.

**C. Acquisition Plan** (describe proposed contracting methodology):

Bids for construction will be solicited via a request for proposal in the Commerce Business Daily. Competition will be based on best value, technical ability of offerers and price. A multi-year contract will be awarded on a firm fixed price for the base construction with options for alternates. Alternates will be determined during the development of the construction documents.

**PART III: CURRENT STATUS** (describe performance against milestones)

The facility planning phase PDR1 was used in the development of the A/E Consultant's Scope of Work. The Smithsonian has negotiated the design contract with Ewing Cole Cherry Brott for a total price of \$2,286,653. Congress approved the Institution's request to reprogram current RR&A funds on June 1, 2003, and the AE contract has been awarded. The programming charrette will be completed in September 2003 and all designs and construction documents will be completed by June 2004, a period of nine months. The construction contract award milestone is scheduled for August or September 2004 and complete building construction by March 2006. Equipment installation will take an additional six months with some of the installation being concurrent with the collections early move.



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| PART I. A. SUMMARY OF PROJECT INFORMATION                            |   |       |  |
|--|---|-------|--|
| Location   | National Mall, Washington, DC                               |       |  |
| Program Unit Sponsor   | National Museum of Natural History                          |       |  |
| Account Title  | Facilities Capital, Revitalization                          |       |  |
| Account Identification Code  |   |       |  |
| Name of Project  | Continue Revitalization, National Museum of Natural History |       |  |
| Project Number   |   |       |  |
| Project Partners   |   |       |  |
| This Project Is:   | New Construction:   |       | Revitalization of Existing Facility: XXX |
| Project/Useful segment is funded:                                    | Incrementally: XXX  |       | Fully:                                   |
| Did the Capital Planning Board approve the project?                  |   | Date: | 1992                                     |
| Did the Capital Planning Board approve the current funding proposal? |   | Date: | April 2003                               |
| Did the Smithsonian Board of Regents approve the project?            |   | Date: | 1992                                     |
| Did Congress authorize the project? (If not required, indicate NA)   |   | Date: | NA                                       |

| B. PROJECT BASELINE  |                                      |                                      |
|--|--------------------------------------|--------------------------------------|
| Initial Baseline Date: 1992  | Date of Baseline Change: August 2002 | Indicate Here if Preliminary: XXXX   |
| <p><b>1. Project Scope</b> (specific description of work effort, including square footage involved, historical significance of existing building, project phases if applicable, highlight changes from original baseline):</p> <p>Replace HVAC, ductwork, lighting, and electrical wiring. Abate and encapsulate asbestos and lead. Restore and upgrade the windows in the original building. Upgrade fire protection and detection systems, storm water systems, water distribution, sanitary, and power systems. Remove and replace the mezzanines to meet acceptable fire protection and accessibility standards. Modify staff restrooms to meet ADA requirements. Update the existing security system. Create a safe storage facility for the variety of hazardous chemicals used in the Museum's scientific research departments. Repair and replace deteriorated piping systems in the tunnels beneath the ground floor of the museum, including primary fire protection sprinkler mains, storm and sewage mains, and miscellaneous water and steam piping. Upgrade emergency power systems to bring the building's life safety systems into code compliance.</p> <p>The current (FY 2004) phase of the project continues the on-going Major Capital Revitalization of the Natural History Building with the renovation of the building's mechanical and electrical systems and associated work. Focus in FY 2004 will be the renovation of the 6th Floor of the building's West Wing. An all new air conditioning and heating distribution system is to be installed; the electrical system upgraded, including a new lighting system; and space modifications made to provide a more flexible and serviceable working environment.</p> |                                      |                                      |
| <b>2. Detail of Overall Project Schedule</b>   |                                      | <b>Month &amp; Year</b>              |
| Planning/Design Start Date:  |                                      | 1985                                 |
| Design Completion Date:  |                                      | TBD (each phase designed separately) |
| Construction Start Date:   |                                      | 1990                                 |
| Construction Completion Date:  |                                      | Est. 2012                            |
| Building Occupancy Date:   |                                      | NA                                   |
| Public Opening Date (if applicable):   |                                      | NA                                   |





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| 3. Detail of Total Project Cost Estimate   |                          |  | Amount in \$Millions |
|--|--------------------------|--|----------------------|
| CAPITAL COSTS  |                          |  |                      |
| Planning/Design  |                          |  | 37.0                 |
| Revitalization/Construction  |                          |  | 220.4                |
| Contingency  | Percentage: 12% of 220.4 |  | 27.0                 |
| Construction Management  | Percentage: 10% of 220.4 |  | 22.0                 |
| Building Commissioning   | Percentage: 1% of 220.4  |  | 2.0                  |
| <b>TOTAL CAPITAL COSTS:</b>  |                          |  | <b>308.4</b>         |
| Non-capital Costs (fundraising, relocation, one-time occupancy costs, exhibits installation)                 |                          |  | 0                    |
| <b>TOTAL PROJECT COST</b>  |                          |  | <b>308.4</b>         |
| Explanation of Basis/methodology for Cost Estimates (indicate stage of design or other assumptions used)     |                          |  |                      |
| Portions of estimate represent completed work; cost of remaining work based on experience with prior phases. |                          |  |                      |

| C. SUMMARY OF FUNDING FOR PROJECT STAGES  |                 |                       |              |             |             |             |             |                        |              |
|---|-----------------|-----------------------|--------------|-------------|-------------|-------------|-------------|------------------------|--------------|
| \$ Millions (1 decimal place)   | Prior           | FY 04                 | FY 05        | FY 06       | FY 07       | FY 08       | FY 09       | Outyears               | Total        |
| <b>INITIAL PROJECT BASELINE:</b>  | <b>FY: 2003</b> | <b>Request to OMB</b> |              |             |             |             |             | <b>Date: Sept 2001</b> |              |
| FEDERAL Capital Costs   | 110.0           | 18.0                  | 18.0         | 18.0        | 46.0        | 30.0        | 30.0        | 25.0                   | 295.0        |
| TRUST Capital Costs   |                 |                       |              |             |             |             |             |                        |              |
| <b>TOTAL CAPITAL COSTS</b>  | <b>110.0</b>    | <b>18.0</b>           | <b>18.0</b>  | <b>18.0</b> | <b>46.0</b> | <b>30.0</b> | <b>30.0</b> | <b>25.0</b>            | <b>295.0</b> |
| Non-Capital Costs   |                 |                       |              |             |             |             |             |                        |              |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>110.0</b>    | <b>18.0</b>           | <b>18.0</b>  | <b>18.0</b> | <b>46.0</b> | <b>30.0</b> | <b>30.0</b> | <b>25.0</b>            | <b>295.0</b> |
| <b>PRIOR BUDGET REQUEST</b>   | <b>FY: 2004</b> | <b>Request to OMB</b> |              |             |             |             |             | <b>Date: Sept 2002</b> |              |
| FEDERAL Capital Costs   | 98.4            | 11.0                  | 43.6         | 43.0        | 36.0        | 33.0        | 30.0        |                        | 295.0        |
| TRUST Capital Costs   |                 |                       |              |             |             |             |             |                        |              |
| <b>TOTAL CAPITAL COSTS</b>  | <b>98.4</b>     | <b>11.0</b>           | <b>43.6</b>  | <b>43.0</b> | <b>36.0</b> | <b>33.0</b> | <b>30.0</b> |                        | <b>295.0</b> |
| Non-Capital Costs   |                 |                       |              |             |             |             |             |                        |              |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>98.4</b>     | <b>11.0</b>           | <b>43.6</b>  | <b>43.0</b> | <b>36.0</b> | <b>33.0</b> | <b>30.0</b> |                        | <b>295.0</b> |
| <b>CURRENT BUDGET REQUEST</b>   | <b>FY: 2005</b> | <b>Request to OMB</b> |              |             |             |             |             | <b>Date: Sept 2003</b> |              |
| FEDERAL Capital Costs   | 98.4            | 3.0                   | 13.0         | 45.0        | 34.0        | 29.0        | 38.0        | 48.0                   | 308.4        |
| TRUST Capital Costs   |                 |                       |              |             |             |             |             |                        |              |
| <b>TOTAL CAPITAL COSTS</b>  | <b>98.4</b>     | <b>3.0</b>            | <b>13.0</b>  | <b>45.0</b> | <b>34.0</b> | <b>29.0</b> | <b>38.0</b> | <b>48.0</b>            | <b>308.4</b> |
| Non-Capital Costs   |                 |                       |              |             |             |             |             |                        |              |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>98.4</b>     | <b>3.0</b>            | <b>13.0</b>  | <b>45.0</b> | <b>34.0</b> | <b>29.0</b> | <b>38.0</b> | <b>48.0</b>            | <b>308.4</b> |
| <b>CHANGES (Prior Request to Current Request)</b>   |                 |                       |              |             |             |             |             |                        |              |
| FEDERAL Capital Costs   | 0               | -8.0                  | -30.6        | +2.0        | -2.0        | -4.0        | +8.0        | +48.0                  | +13.4        |
| TRUST Capital Costs   |                 |                       |              |             |             |             |             |                        |              |
| <b>TOTAL CAPITAL COSTS</b>  | <b>0</b>        | <b>-8.0</b>           | <b>-30.6</b> | <b>+2.0</b> | <b>-2.0</b> | <b>-4.0</b> | <b>+8.0</b> | <b>+48.0</b>           | <b>+13.4</b> |
| Non-Capital Costs   |                 |                       |              |             |             |             |             |                        |              |
| <b>TOTAL PROJECT FUNDS:</b>   | <b>0</b>        | <b>-8.0</b>           | <b>-30.6</b> | <b>+2.0</b> | <b>-2.0</b> | <b>-4.0</b> | <b>+8.0</b> | <b>+48.0</b>           | <b>+13.4</b> |
| Explanation of Baseline Change (detail of factors that affected changed scope, schedule and/or costs):  |                 |                       |              |             |             |             |             |                        |              |
| FY 2004 estimate was lowered from the initial baseline for this phase of work due to other pressing SI priorities for that budget year; remaining work was re-estimated and distributed in the outyears to match current plans. |                 |                       |              |             |             |             |             |                        |              |



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| D. OPERATING COST PROJECTIONS  |   |          |              |
|--|---|----------|--------------|
| ESTIMATED ANNUAL OPERATING COST  | Date of First Full Year Occupancy (FY): | FTE      | Amount (\$M) |
| Programmatic Costs (Federal and Trust)   |   |          |              |
| Facilities Costs (Operations & Maintenance, Security, Safety):   |   | 0        | .2           |
| Central SI Support Costs (Overhead):   |   |          |              |
| <b>TOTAL ANNUAL OPERATING COST:</b>  |   | <b>0</b> | <b>.2</b>    |
| Explanation of basis/methodology for cost estimates (assumptions used, notes on unit preparing estimates): |   |          |              |
| No additional operating costs currently anticipated beyond an increase in utilities used by new equipment. |   |          |              |

| E. SUMMARY OF OPERATIONS FUNDING                  |                 |           |                            |           |       |           |       |           |       |           |       |           |                        |           |          |           |
|---|-----------------|-----------|----------------------------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|------------------------|-----------|----------|-----------|
| \$ Millions (1 decimal place)                     | Prior           |           | FY 04                      |           | FY 05 |           | FY 06 |           | FY 07 |           | FY 08 |           | FY 09                  |           | Outyears |           |
|   | FTE             | \$        | FTE                        | \$        | FTE   | \$        | FTE   | \$        | FTE   | \$        | FTE   | \$        | FTE                    | \$        | FTE      | \$        |
| <b>INITIAL OPERATIONS ESTIMATE:</b>               | <b>FY: 2003</b> |           | <b>Request to Congress</b> |           |       |           |       |           |       |           |       |           | <b>Date: Feb 2002</b>  |           |          |           |
| TOTAL FEDERAL OPERATING COST:                     |                 | .2        |                            | .2        |       | .2        |       | .2        |       | .2        |       | .2        |                        | .2        |          | .2        |
| TOTAL TRUST OPERATING COST:                       |                 |           |                            |           |       |           |       |           |       |           |       |           |                        |           |          |           |
| <b>TOTAL ANNUAL OPERATING COST:</b>               |                 | <b>.2</b> |                            | <b>.2</b> |       | <b>.2</b> |       | <b>.2</b> |       | <b>.2</b> |       | <b>.2</b> |                        | <b>.2</b> |          | <b>.2</b> |
| <b>PRIOR BUDGET REQUEST</b>                       | <b>FY: 2004</b> |           | <b>Request to OMB</b>      |           |       |           |       |           |       |           |       |           | <b>Date: Sept 2002</b> |           |          |           |
| TOTAL FEDERAL OPERATING COST:                     |                 | .2        |                            | .2        |       | .2        |       | .2        |       | .2        |       | .2        |                        | .2        |          | .2        |
| TOTAL TRUST OPERATING COST:                       |                 |           |                            |           |       |           |       |           |       |           |       |           |                        |           |          |           |
| <b>TOTAL ANNUAL OPERATING COST:</b>               |                 | <b>.2</b> |                            | <b>.2</b> |       | <b>.2</b> |       | <b>.2</b> |       | <b>.2</b> |       | <b>.2</b> |                        | <b>.2</b> |          | <b>.2</b> |
| <b>CURRENT BUDGET REQUEST</b>                     | <b>FY: 2005</b> |           | <b>Request to OMB</b>      |           |       |           |       |           |       |           |       |           | <b>Date: Sept 2003</b> |           |          |           |
| TOTAL FEDERAL OPERATING COST:                     |                 | .2        |                            | .2        |       | .2        |       | .2        |       | .2        |       | .2        |                        | .2        |          | .2        |
| TOTAL TRUST OPERATING COST:                       |                 |           |                            |           |       |           |       |           |       |           |       |           |                        |           |          |           |
| <b>TOTAL ANNUAL OPERATING COST:</b>               |                 | <b>.2</b> |                            | <b>.2</b> |       | <b>.2</b> |       | <b>.2</b> |       | <b>.2</b> |       | <b>.2</b> |                        | <b>.2</b> |          | <b>.2</b> |
| <b>CHANGES (Prior Request to Current Request)</b> |                 |           |                            |           |       |           |       |           |       |           |       |           |                        |           |          |           |
| TOTAL FEDERAL OPERATING COST:                     |                 | 0         |                            | 0         |       | 0         |       | 0         |       | 0         |       | 0         |                        | 0         |          | 0         |
| TOTAL TRUST OPERATING COST:                       |                 |           |                            |           |       |           |       |           |       |           |       |           |                        |           |          |           |
| <b>TOTAL ANNUAL OPERATING COST:</b>               |                 | <b>0</b>  |                            | <b>0</b>  |       | <b>0</b>  |       | <b>0</b>  |       | <b>0</b>  |       | <b>0</b>  |                        | <b>0</b>  |          | <b>0</b>  |
| Explanation of Change:                            |                 |           |                            |           |       |           |       |           |       |           |       |           |                        |           |          |           |
|   |                 |           |                            |           |       |           |       |           |       |           |       |           |                        |           |          |           |





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**PART II: JUSTIFICATION AND OTHER INFORMATION**

**A. Justification** (describe why the project is needed, including specific dates required, programs supported, and alternatives analysis):

The windows in the main building are original and are so badly deteriorated they no longer provide a proper seal; they are also covered with layers of lead-based paint. The roof system above the rotunda and the major halls was installed in 1909, with portions replaced in the 1950s. The roof over the original building is now being replaced. The 40-year-old HVAC, control, fire protection and suppression, and laboratory exhaust systems are all 15 years past their projected normal useful life and break down frequently. The automatic temperature control system is obsolete and does not operate satisfactorily to maintain stable temperature and humidity necessary for long-term preservation of the collections. Ninety percent of the electrical lighting and power panels in the building are more than 30 years old. The emergency power system is inadequate to operate the more than 30 elevators, 3 fire pumps, and emergency lighting in the building in the event of a major power outage. Restrooms for the public, and some for staff, have been modified to make them accessible, but 22 staff restrooms in the building still do not meet ADA requirements. Asbestos has been abated in all major equipment rooms and in the attics, but it remains in duct wrap, mastic, pipe insulation, and most of the vinyl floor tile. Lead in old paint is present throughout the building, and must be abated or encapsulated. To meet pressing space needs, mezzanines have been added over the years in a haphazard fashion; none have sufficient fire separation from adjacent spaces, they are inaccessible to persons with disabilities, and many are overcrowded to the point of structural stress. None of these mezzanines can be renovated to meet code requirements. They must be removed or replaced. The Museum continues to outgrow its quarters, diminishing the space available for public use. When the building opened in 1910, 220,000 square feet of exhibit space was provided. Today, visitation has increased a thousand fold from the earliest days of the Museum, yet exhibits currently occupy 25 percent less space. Escalators installed in the 1970s are poorly placed and do not serve visitor needs. The museum's main public entrance from the National Mall, used by 80% of the museum's visitors, is not accessible to persons with disabilities. Presently, the only accessible entrance to the museum is at Constitution Avenue, a three-block journey for those arriving at the Mall entrance.

**B. Project/Program Management** (indicate key staff/organization responsible for this project):

|  |   |
|--|---|
| Project Executive (if applicable):                           | Acting Project Exec.: Sheryl Kolasinski, Director, Office of Project Management, OFEO |
| Project Manager:   | Walter Ennaco, Office of Project Management, OFEO                                     |
| Design Manager:  | Various   |
| Construction Manager (Res. Engineer):                        | Various   |
| Program Manager/Liaison & Unit                               | Jerome Conlon Asst. Director Facilities Operations, NMNH                              |
| Other Management Plans (Executive/Steering Committees, etc.) |   |

**C. Acquisition Plan** (describe proposed contracting methodology):

Bids for each phase are solicited via a request for proposal in the Commerce Business Daily. Competition is based on best value, technical ability of offerers and price. Contracts are awarded on a firm fixed price basis.

**PART III: CURRENT STATUS** (describe performance against milestones)

Construction completed on the NMNH renewal includes the central cooling plant and emergency generator, asbestos abatement in all mechanical spaces and attics, replacement of all windows in the east and west wings, HVAC equipment replacement, and the renovation of three floors in the east wing and a portion of the third floor of the main building.

In FY 2003, the replacement of the roof, repair of the façade and skylights, installation of mechanical/electrical systems for the East and West wings, and renovation of the East Wing 4<sup>th</sup> and 5<sup>th</sup> floors (36,000 square feet) has been substantially completed. The Renovations to Halls 13 – 16 (25,600 square feet) is 85% complete and will be ready for the opening of the new Mammals Exhibit in early FY04. The HVAC, Phase VI, renovations to the Attic spaces and emergency power modifications are about 60% complete. The renovations to the complete building systems of Exhibit Halls 11 and 30 (15,600 square feet) were contracted and will be complete in 1<sup>st</sup> Qtr, FY04. Both halls will be restored and reverted to gallery space for temporary and permanent exhibits. Restoration and renewal will include complete replacement and upgrade of the HVAC system, electrical distribution system, fire protection and detection, plumbing systems, lighting, architectural restoration, and asbestos and lead abatement. The HVAC, Phase IIC, renovations for the 6<sup>th</sup> Floor West Wing and 3<sup>rd</sup> Floor Main Building is to be awarded in late 2003 and will be constructed in FY04.

A major design is underway for the FY 2004–2007 renovation of Halls 7, 8, 9, 10 (22,000 square feet) for the future Ocean Exhibit and 23, 24, 25 (14,600 square feet) for permanent and temporary exhibits. For FY04, demolition of the halls will begin after object removal. Also in FY04, the Executive Conference Room will be relocated, the Main Building Fire Pump will be replaced and designs will start for Renovations of the Basements in both the East and West Wings. In FY05, the first major renovation phase of the Halls 7-10 project will begin.





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| PART I. A. SUMMARY OF PROJECT INFORMATION  |  |     |                                      |                |
|--|--|-----|--------------------------------------|----------------|
| Location   | Washington, DC, the National Mall                                  |     |                                      |                |
| Program Unit Sponsor   | Arts & Industries Building (AIB)                                   |     |                                      |                |
| Account Title  | Facilities Capital, Revitalization                                 |     |                                      |                |
| Account Identification Code  | XXXXXX   |     |                                      |                |
| Name of Project  | AIB, Close Building and Relocate/Consolidate Staff and Collections |     |                                      |                |
| Project Number   | 0315110  |     |                                      |                |
| Project Partners   |  |     |                                      |                |
| This Project Is:   | New Construction:  |     | Revitalization of Existing Facility: | XXX            |
| Project/Useful segment is funded:  | Incrementally:   | XXX | Fully:                               |                |
| Did the Capital Planning Board approve the project? Yes                                  |  |     | Date:                                | April 10, 2003 |
| Did the Capital Planning Board approve the current funding proposal?                     |  |     | Date:                                | April 10, 2003 |
| Did the Smithsonian Board of Regents approve the project? (If not required, indicate NA) |  |     | Date:                                | September 2003 |
| Did Congress authorize the project? (If not required, indicate NA)                       |  |     | Date:                                | N/A            |

| B. PROJECT BASELINE   |                          |                                    |
|---|--------------------------|------------------------------------|
| Initial Baseline Date: April 2003   | Date of Baseline Change: | Indicate Here if Preliminary: XXXX |
| <p><b>1. Project Scope</b> (specific description of work effort, including square footage involved, historical significance of existing building, project phases if applicable, highlight changes from original baseline):</p> <p>Originally designed to house the rapidly growing National Museum, the 198,000 gross square foot Arts and Industries Building (AIB) was started in April 1879 and completed in March 1881. The last major renovation of the building utility systems took place in the 1970s. The HVAC equipment and electrical and other utility systems are now nearly 30 years old and break down with increasing frequency. Although members of the House and Senate introduced legislation to authorize use of the Arts and Industries Building to establish a National Museum of African American History and Culture in 2001, other sites are now under consideration. The Smithsonian has completed the design of the AIB Renovation Project to approximately the 50% stage. The estimated cost of the total renovation of the Arts and Industries Building is estimated to be about \$182 million.</p> <p>The AIB's current condition is very poor. Roof leakage continues to cause further damage to roof structure, building components, paint and plaster. Paint is peeling at an increasing rate, which in turn increases the risk of contamination from lead. The Institution has determined that because of the risk of roof failure the building will be closed in FY 2005, even if the renovation project does not proceed. This will require relocation of staff, collections and other activities now housed in the building. Ultimately, the total move and relocation costs vary depending on the final scenario approved for rehabilitation of existing SI space, leased space, and/or otherwise acquired space. Design and construction costs for "mothballing" the historic structure are currently being developed. The Institution plans to seek funding in the outyears for the revitalization project.</p> <p>Relocation plans for AIB occupants have been developed under various scenarios including existing SI space and leased space, balancing programmatic efficiency and cost. In addition to offices, several specialized spaces must be relocated, including collections (archives, requiring heavy floor-loading), public programs (the AIB exhibition program and Discovery Theater), the infant/toddler day care center, and the Institution's entire central computer center and support spaces. The FY 2005 budget request includes \$26.4 million to relocate AIB occupants to both permanent and temporary (should the renovation project go forward) owned and leased space. An additional cost ("above the line") of \$7.4 million is included in FY 2005 to consolidate the SI Archives and the Office of the Chief Information Officer (OCIO) from various remote and local locations into the new, permanent location(s). This consolidation will eliminate a number of operating inefficiencies for both units. Currently, OCIO staff and equipment are located in several different buildings, requiring daily travel time between sites even for routine tasks. SI Archives collections are located in a number of geographical locations, from Virginia to Pennsylvania, which hampers comprehensive treatment and use of the materials by staff and scholars.</p> |                          |                                    |
| <b>2. Detail of Overall Project Schedule</b>  |                          | <b>Month &amp; Year</b>            |
| Planning/Design Start Date:   |                          | April 2003                         |
| Design Completion Date:   |                          | July 2004                          |
| Construction Start Date:  |                          | October 2004                       |
| Construction Completion Date:   |                          | July 2005                          |
| Building Closure Date:  |                          | August 2005                        |
| Public Opening Date (if applicable):  |                          | N/A                                |



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| 3. Detail of Total Project Cost Estimate   |             |  | Amount in \$Millions |
|--|-------------|--|----------------------|
| <b>CAPITAL COSTS</b>   |             |  |                      |
| Planning/Design <i>included in total</i>   |             |  |                      |
| Revitalization/Construction <i>includes only relocation costs</i>  |             |  | 26.4                 |
| Contingency <i>included in total</i>   | Percentage: |  |                      |
| Construction Management <i>incl. in total</i>  | Percentage: |  |                      |
| Building Commissioning <i>included in total</i>  | Percentage: |  |                      |
| <b>TOTAL CAPITAL COSTS:</b>  |             |  | <b>26.4</b>          |
| "Above the line" estimate to consolidate SI Archives and OCIO  |             |  | 7.4                  |
| <b>TOTAL PROJECT COST</b>  |             |  | <b>33.8</b>          |
| Explanation of Basis/methodology for Cost Estimates (indicate stage of design or other assumptions used)<br>Preliminary estimates based on proposed relocations into various combinations of existing SI-owned space and leased space. Estimates based on rule-of-thumb costs per square foot per industry standards and historical SI costs. Both leased space improvements and renovations in existing SI buildings were considered. Locations for relocations have been preliminarily suggested, but are not yet approved. Design cannot begin until locations are finalized. |             |  |                      |

| C. SUMMARY OF FUNDING FOR PROJECT STAGES   |                 |       |                       |       |       |       |       |                        |       |
|--|-----------------|-------|-----------------------|-------|-------|-------|-------|------------------------|-------|
| \$ Millions (1 decimal place)  | Prior           | FY 04 | FY 05                 | FY 06 | FY 07 | FY 08 | FY 09 | Outyears               | Total |
| <b>INITIAL PROJECT BASELINE:</b>   | <b>FY: 2005</b> |       | <b>Request to OMB</b> |       |       |       |       | <b>Date: Sept 2003</b> |       |
| FEDERAL Capital Costs  |                 |       | 26.4                  |       |       |       |       |                        |       |
| TRUST Capital Costs  |                 |       |                       |       |       |       |       |                        |       |
| <b>TOTAL CAPITAL COSTS</b>   |                 |       | 26.4                  |       |       |       |       |                        |       |
| "Above the line" request   |                 |       | 7.4                   |       |       |       |       |                        |       |
| <b>TOTAL PROJECT FUNDS:</b>  |                 |       | 33.8                  |       |       |       |       |                        |       |
| <b>PRIOR BUDGET REQUEST</b>  |                 |       |                       |       |       |       |       |                        |       |
|  | <b>FY:</b>      |       | <b>Request to OMB</b> |       |       |       |       | <b>Date:</b>           |       |
| FEDERAL Capital Costs  |                 |       |                       |       |       |       |       |                        |       |
| TRUST Capital Costs  |                 |       |                       |       |       |       |       |                        |       |
| <b>TOTAL CAPITAL COSTS</b>   |                 |       |                       |       |       |       |       |                        |       |
| Non-Capital Costs  |                 |       |                       |       |       |       |       |                        |       |
| <b>TOTAL PROJECT FUNDS:</b>  |                 |       |                       |       |       |       |       |                        |       |
| <b>CURRENT BUDGET REQUEST</b>  |                 |       |                       |       |       |       |       |                        |       |
|  | <b>FY: 2005</b> |       | <b>Request to OMB</b> |       |       |       |       | <b>Date: Sept 2003</b> |       |
| FEDERAL Capital Costs  |                 |       | 26.4                  |       |       |       |       |                        |       |
| TRUST Capital Costs  |                 |       |                       |       |       |       |       |                        |       |
| <b>TOTAL CAPITAL COSTS</b>   |                 |       | 26.4                  |       |       |       |       |                        |       |
| Non-Capital Costs  |                 |       | 7.4                   |       |       |       |       |                        |       |
| <b>TOTAL PROJECT FUNDS:</b>  |                 |       | 33.8                  |       |       |       |       |                        |       |
| <b>CHANGES (Prior Request to Current Request)</b>  |                 |       |                       |       |       |       |       |                        |       |
| FEDERAL Capital Costs  |                 |       | +26.4                 |       |       |       |       |                        |       |
| TRUST Capital Costs  |                 |       |                       |       |       |       |       |                        |       |
| <b>TOTAL CAPITAL COSTS</b>   |                 |       | +26.4                 |       |       |       |       |                        |       |
| Non-Capital Costs  |                 |       | +7.4                  |       |       |       |       |                        |       |
| <b>TOTAL PROJECT FUNDS:</b>  |                 |       | +33.8                 |       |       |       |       |                        |       |
| <b>Explanation of Baseline Change</b> (detail of factors that affected changed scope, schedule and/or costs)<br>This is a new project for FY 2005. |                 |       |                       |       |       |       |       |                        |       |





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| D. OPERATING COST PROJECTIONS  |  |     |              |
|--|--|-----|--------------|
| ESTIMATED ANNUAL OPERATING COST  | Date of First Full Year Occupancy (FY): 2006 | FTE | Amount (\$M) |
| Programmatic Costs (Museum Federal and Trust costs)  |  |     |              |
| Facilities Costs (Maintenance, Operations Security & Support):   |  |     |              |
| Central SI Support Costs (Overhead):   |  |     |              |
| <b>TOTAL ANNUAL OPERATING COST:</b>  |  |     | TBD          |
| Explanation of basis/methodology for cost estimates (assumptions used, notes on unit preparing estimates): |  |     |              |
| Operating costs under development pending final decisions and selection of relocation space(s).            |  |     |              |

| E. SUMMARY OF OPERATIONS FUNDING   |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
|--|----------|----|-------|----|-----------------|----|-------|----|-------|----|-----------------|----|-------|----|----------|----|
| \$ Millions (1 decimal place)  | Prior    |    | FY 04 |    | FY 05           |    | FY 06 |    | FY 07 |    | FY 08           |    | FY 09 |    | Outyears |    |
|  | FTE      | \$ | FTE   | \$ | FTE             | \$ | FTE   | \$ | FTE   | \$ | FTE             | \$ | FTE   | \$ | FTE      | \$ |
| <b>INITIAL OPERATIONS ESTIMATE:</b>  | FY: 2005 |    |       |    | Request to OMB: |    |       |    |       |    | Date: Sept 2003 |    |       |    |          |    |
| TOTAL FEDERAL OPERATING COST:  |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| TOTAL TRUST OPERATING COST:  |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| TOTAL ANNUAL OPERATING COST:   |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| <b>PRIOR BUDGET REQUEST</b>  |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
|  | FY:      |    |       |    | Request to OMB: |    |       |    |       |    | Date            |    |       |    |          |    |
| TOTAL FEDERAL OPERATING COST:  |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| TOTAL TRUST OPERATING COST:  |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| TOTAL ANNUAL OPERATING COST:   |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| <b>CURRENT BUDGET REQUEST</b>  |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
|  | FY: 2005 |    |       |    | Request to OMB: |    |       |    |       |    | Date: Sept 2003 |    |       |    |          |    |
| TOTAL FEDERAL OPERATING COST:  |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| TOTAL TRUST OPERATING COST:  |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| TOTAL ANNUAL OPERATING COST:   |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| <b>CHANGES (Prior Request to Current Request)</b>  |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| TOTAL FEDERAL OPERATING COST:  |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| TOTAL TRUST OPERATING COST:  |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| TOTAL ANNUAL OPERATING COST:   |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| Explanation of Change:   |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |
| Until final scenario of existing and leased space configuration is finalized, operating costs are pending. |          |    |       |    |                 |    |       |    |       |    |                 |    |       |    |          |    |





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**PART II: JUSTIFICATION AND OTHER INFORMATION**

**A. Justification** (describe why the project is needed, including specific dates required, programs supported, and alternatives analysis):  
 Structural analysis of the historic AIB roof trusses has revealed that the structural integrity of main roof components is at risk of failure. The 2003 Roof Report recommended that "... a permanent roof repair/replacement program be implemented within two years in order to ensure the safety of the museum patrons" (Thomton Tomasetti Cutts Structural Report, 2003). Due to the serious deterioration of roof elements already, the Institution has determined that the building must be vacated by mid-2005 to ensure the health, safety and welfare of staff, visitors, and collections. Planning has already begun for the relocation of collections, programs, and occupants. Design will begin once final locations are determined, no later than October 2003. The FY 2005 appropriation is needed to implement the construction, space fit-out and move of collections and occupants by July 2005.

**B. Project/Program Management** (indicate key staff/organization responsible for this project):

|                                       |  |
|---------------------------------------|--|
| Project Executive (if applicable):    | Debra Nauta-Rodriguez, Office of Project Management, OFEO      |
| Project Manager:                      |  |
| Design Manager:                       | Christopher Lethbridge, Office of Engineering and Design, OFEO |
| Construction Manager (Res. Engineer): |  |
| Program Manager/Liaison & Unit        |  |

Other Management Plans (Executive/Steering Committees, etc.)

To be determined.

**C. Acquisition Plan** (describe proposed contracting methodology):

Contracts for renovating space in existing SI building will be awarded following FAR requirements to SI "term" architect-engineer and construction contractors. Contracts for design and fit-out of leased spaces will be awarded per terms of any existing or new leases.

**PART III: CURRENT STATUS** (describe performance against milestones)

The proposals for relocation scenarios have been presented to Smithsonian management. Decisions regarding locations and space acquisition strategies are planned for early fall 2003 in order to maintain the design, construction, and move-out schedule.



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| PART I. A. SUMMARY OF PROJECT INFORMATION                            |   |     |                                      |            |
|--|---|-----|--------------------------------------|------------|
| Location   | Washington, DC, the National Mall           |     |                                      |            |
| Program Unit Sponsor   | Office of Protection Services               |     |                                      |            |
| Account Title  | Facilities Capital, Revitalization          |     |                                      |            |
| Account Identification Code  |   |     |                                      |            |
| Name of Project  | Construct/Install Anti-Terrorism Protection |     |                                      |            |
| Project Number   | Multiple                                    |     |                                      |            |
| Project Partners   |   |     |                                      |            |
| This Project Is:   | New Construction:                           | XXX | Revitalization of Existing Facility: | XXX        |
| Project/Useful segment is funded:                                    | Incrementally:                              | XXX | Fully:                               |            |
| Did the Capital Planning Board approve the project?                  |   |     | Date:                                | Oct 2001   |
| Did the Capital Planning Board approve the current funding proposal? |   |     | Date:                                | April 2003 |
| Did the Smithsonian Board of Regents approve the project?            |   |     | Date:                                | Jan 2002   |
| Did Congress authorize the project? (If not required, indicate NA)   |   |     | Date:                                | NA         |

| B. PROJECT BASELINE   |                                     |   |         |  |  |  |     |              |                |
|---|-------------------------------------|---|---------|--|--|--|-----|--------------|----------------|
| Initial Baseline Date: January 2002   | Date of Baseline Change: April 2003 |   |         |  |  |  |     |              |                |
| Indicate Here if Preliminary: XXXX  |                                     |   |         |  |  |  |     |              |                |
| <p><b>1. Project Scope</b> (specific description of work effort, including square footage involved, historical significance of existing building, project phases if applicable, highlight changes from original baseline):</p> <p>The anti-terrorism major renewal program consists of multiple projects to reduce the Institution's vulnerability, including Mall-wide site adaptations, modifications to building perimeters and additions and modifications to building systems. The program will be implemented over multiple fiscal years with emphasis on the highest priority projects to reduce Smithsonian vulnerability to attack. The full program includes the following elements:</p> <ul style="list-style-type: none"> <li>• <u>Construct Permanent Physical Security Barriers</u>: Install hardened perimeter barriers, pop-up barriers &amp; guard booths (meeting established Government criteria) to provide a reasonable standoff distance from Smithsonian facilities thus ensuring vehicles (trucks) carrying explosives cannot drive immediately adjacent to our building exteriors. Current estimate for total project is \$30.5 million.</li> <li>• <u>Mitigate Window Glass Hazards</u>: Modify windows, including film application with frame restraints or interior retro-fits to prevent glass from shattering into deadly shards. Work to complete the Smithsonian facilities will occur at the NMNH, Renwick, Quadrangle, Freer, Smithsonian Institution Building, Victor Building, Udvar-Hazy Dulles Center, Arts &amp; Industries Building, Cooper-Hewitt, NMAI/ Heye Center, and Patent Office Building. Current estimate is \$14.7 million.</li> <li>• <u>Install Perimeter Camera Systems</u>: Provide exterior surveillance cameras and monitoring in the security control rooms. Full-time recording by these cameras will provide invaluable investigative information in the event of a potential security or terrorist related event. Current estimate is \$0.6 million.</li> <li>• <u>Provide Electronic Access Control</u>: Install Electronic Access Control (card readers) at all public/staff separation points throughout SI facilities to restrict the public's ability to gain access to sensitive and critical areas. Current estimate is \$0.7 million.</li> <li>• <u>Modify Air Intakes for Chemical, Biological and Radiological Mitigation</u> – Modify and protect facility air intakes and HVAC systems at all Smithsonian facilities to prevent or reduce the impact of a potential chemical/biological/radiological attack against major metropolitan areas or the Smithsonian. Current estimate is \$1.8 million.</li> <li>• <u>Provide Permanent Public Visitor Screening at NMNH and NMAH</u>: Install adequate numbers of magnetometers and x-ray equipment at each entrance of these two museums. This will improve security and speed the visitors' entry process into these popular museums. Funding for NMNH is planned for FY 2006 (\$11 million in NMNH major revitalization project) and for NMAH (\$5 million as part of the NMAH public space major renewal project).</li> <li>• <u>Design</u>: Total design costs are estimated at \$3.1 million.</li> </ul> <p><b>FY 2005 REQUEST (Thousands of Dollars):</b></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">Construct Phase II permanent perimeter barriers</td> <td style="text-align: right;">\$4,600</td> </tr> <tr> <td colspan="2">(Phase I installation to be obligated in FY 2004 with \$7.5 million in FY 2003 S&amp;E no-year anti-terrorism funds)</td> </tr> <tr> <td>Modify Air Intakes for C/ B/ R Mitigation, Phase I</td> <td style="text-align: right;">300</td> </tr> <tr> <td style="text-align: right;"><b>Total</b></td> <td style="text-align: right;"><b>\$4,900</b></td> </tr> </table> |                                     | Construct Phase II permanent perimeter barriers | \$4,600 | (Phase I installation to be obligated in FY 2004 with \$7.5 million in FY 2003 S&E no-year anti-terrorism funds) |  | Modify Air Intakes for C/ B/ R Mitigation, Phase I | 300 | <b>Total</b> | <b>\$4,900</b> |
| Construct Phase II permanent perimeter barriers   | \$4,600                             |   |         |  |  |  |     |              |                |
| (Phase I installation to be obligated in FY 2004 with \$7.5 million in FY 2003 S&E no-year anti-terrorism funds)  |                                     |   |         |  |  |  |     |              |                |
| Modify Air Intakes for C/ B/ R Mitigation, Phase I  | 300                                 |   |         |  |  |  |     |              |                |
| <b>Total</b>  | <b>\$4,900</b>                      |   |         |  |  |  |     |              |                |
| <b>2. Detail of Overall Project Schedule</b>  |                                     |   |         |  |  |  |     |              |                |
| Planning/Design Start Date:   | 2002                                |   |         |  |  |  |     |              |                |
| Design Completion Date:   | Multiple sites and Projects         |   |         |  |  |  |     |              |                |
| Construction Start Date:  | Multiple starts                     |   |         |  |  |  |     |              |                |
| Construction Completion Date:   | FY 2012                             |   |         |  |  |  |     |              |                |
| Building Occupancy Date:  | NA                                  |   |         |  |  |  |     |              |                |





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|                                      |    |
|--------------------------------------|----|
| Public Opening Date (if applicable): | NA |
|--------------------------------------|----|

| 3. Detail of Total Project Cost Estimate   |             |             |  | Amount in \$Millions |
|--|-------------|-------------|--|----------------------|
| <b>CAPITAL COSTS</b>   |             |             |  |                      |
| Planning/Design: 7% of 43.2  |             |             |  | 3.1                  |
| Revitalization/Construction  |             |             |  | 39.0                 |
| Contingency  | Percentage: | 10% of 42.0 |  | 4.2                  |
| Construction Management  | Percentage: | 12% of 43.2 |  | 5.1                  |
| Building Commissioning   | Percentage: |             |  | N/A                  |
| <b>TOTAL CAPITAL COSTS:</b>  |             |             |  | <b>51.4</b>          |
| Non-capital Costs (fundraising, relocation, one-time occupancy costs, exhibits installation)   |             |             |  | 0                    |
| <b>TOTAL PROJECT COST</b>  |             |             |  | <b>51.4</b>          |
| Explanation of Basis/methodology for Cost Estimates (indicate stage of design or other assumptions used)   |             |             |  |                      |
| Preliminary estimates based on experience with similar work in Smithsonian buildings and in other government agencies in Washington DC. Some design funds will come out of the \$39 million construction line. |             |             |  |                      |

| C. SUMMARY OF FUNDING FOR PROJECT STAGES  |                 |       |                            |       |       |       |       |                        |       |
|---|-----------------|-------|----------------------------|-------|-------|-------|-------|------------------------|-------|
| \$ Millions (1 decimal place)   | Prior           | FY 04 | FY 05                      | FY 06 | FY 07 | FY 08 | FY 09 | Outyears               | Total |
| <b>INITIAL PROJECT BASELINE:</b>  | <b>FY: 2003</b> |       | <b>Request to Congress</b> |       |       |       |       | <b>Date: Feb 2002</b>  |       |
| FEDERAL Capital Costs   | 12.9            | 10.1  | 29.4                       |       |       |       |       |                        | 52.4  |
| TRUST Capital Costs   |                 |       |                            |       |       |       |       |                        |       |
| <b>TOTAL CAPITAL COSTS</b>  | 12.9            | 10.1  | 29.4                       |       |       |       |       |                        | 52.4  |
| Non-Capital Costs   |                 |       |                            |       |       |       |       |                        |       |
| <b>TOTAL PROJECT FUNDS:</b>   | 12.9            | 10.1  | 29.4                       |       |       |       |       |                        | 52.4  |
| <b>PRIOR BUDGET REQUEST</b>   | <b>FY: 2004</b> |       | <b>Request to OMB</b>      |       |       |       |       | <b>Date: Sept 2002</b> |       |
| FEDERAL Capital Costs   | 12.9            | 10.1  | 29.4                       |       |       |       |       |                        | 52.4  |
| TRUST Capital Costs   |                 |       |                            |       |       |       |       |                        |       |
| <b>TOTAL CAPITAL COSTS</b>  | 12.9            | 10.1  | 29.4                       |       |       |       |       |                        | 52.4  |
| Non-Capital Costs   |                 |       |                            |       |       |       |       |                        |       |
| <b>TOTAL PROJECT FUNDS:</b>   | 12.9            | 10.1  | 29.4                       |       |       |       |       |                        | 52.4  |
| <b>CURRENT BUDGET REQUEST</b>   | <b>FY: 2005</b> |       | <b>Request to OMB</b>      |       |       |       |       | <b>Date: Sept 2003</b> |       |
| FEDERAL Capital Costs   | 12.9            | 0     | 4.9                        | 11.0  | 6.1   | 2.2   | 7.8   | 6.5                    | 51.4  |
| TRUST Capital Costs   |                 |       |                            |       |       |       |       |                        |       |
| <b>TOTAL CAPITAL COSTS</b>  | 12.9            | 0     | 4.9                        | 11.0  | 6.1   | 2.2   | 7.8   | 6.5                    | 51.4  |
| Non-Capital Costs   |                 |       |                            |       |       |       |       |                        |       |
| <b>TOTAL PROJECT FUNDS:</b>   | 12.9            | 0     | 4.9                        | 11.0  | 6.1   | 2.2   | 7.8   | 6.6                    | 51.4  |
| <b>CHANGES (Prior Request to Current Request)</b>   |                 |       |                            |       |       |       |       |                        |       |
| FEDERAL Capital Costs   | 0               | -10.1 | -24.5                      | +11.0 | +6.1  | +2.2  | +7.8  | +6.5                   | -1.0  |
| TRUST Capital Costs   |                 |       |                            |       |       |       |       |                        |       |
| <b>TOTAL CAPITAL COSTS</b>  | 0               | -10.1 | -24.5                      | +11.0 | +6.1  | +2.2  | +7.8  | +6.5                   | -1.0  |
| Non-Capital Costs   |                 |       |                            |       |       |       |       |                        |       |
| <b>TOTAL PROJECT FUNDS:</b>   | 0               | -10.1 | -24.5                      | +11.0 | +6.1  | +2.2  | +7.8  | +6.5                   | -1.0  |
| Explanation of Baseline Change (detail of factors that affected changed scope, schedule and/or costs):<br>The Institution's request was not included in the President's Budget for FY 2004. Subsequent evaluation has resulted in revisions to the scope, cost and schedule of the project. |                 |       |                            |       |       |       |       |                        |       |





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**PART II: JUSTIFICATION AND OTHER INFORMATION**

**A. Justification** (describe why the project is needed, including specific dates required, programs supported, and alternatives analysis):

Since the terrorist attacks on New York and Washington, DC on September 11, 2001 the Smithsonian Institution has developed a comprehensive plan for reducing the risk of a terrorist attack occurring at a Smithsonian museum. The plan results in minimizing the potential damage to people, collections, and buildings should a terrorist attack take place. With the help of outside experts, SI staff performed risk assessments, reviewed security and disaster preparedness plans, and commissioned blast assessments for Smithsonian public buildings. This resulted in the following recommendations to mitigate against vulnerabilities: installation of physical barriers separating the buildings from the street, installation of anti-shatter window film (or interior retro-fits) to mitigate the effects of glass window walls and doors shattering during a blast event, increased building perimeter camera surveillance, improved building emergency voice systems, secured non-public building areas with electronic access control, electronic screening of mail and visitors for the most heavily visited museums, protection against chemical, biological & radiological attack, and mitigation against the effects of blast and progressive collapse.

The popular recognition of the Smithsonian name, the American icons contained in its facilities, and the high level of public access and visitation distinguish the Smithsonian facilities from other government office buildings. If funding is not provided, there is an increased likelihood of damage to people, collections and buildings in the event of a terrorist attack.

**B. Project/Program Management** (Indicate key staff/organization responsible for this project):

|  |   |
|--|---|
| Project Executive (if applicable):                           | NA  |
| Project Manager:   | Judson McIntire, Office of Project Management, OFEO |
| Design Manager:  | Multiple  |
| Construction Manager (Res. Engineer):                        | Multiple  |
| Program Manager/Liaison & Unit                               | Douglas Hall, Office of Protection Services, OFEO   |
| Other Management Plans (Executive/Steering Committees, etc.) |   |

The SI Anti-Terrorism Security Improvement Program/Project is sponsored and overseen by Office of Protection Services (OPS) senior staff. The project management of the program, including planning, design, and construction will be accomplished through a partnership of OFEO Offices; Office of Protection Services, Office of Project Management, Facility Master Planning, and Office of Engineering, Design & Construction.

**C. Acquisition Plan** (describe proposed contracting methodology):

Acquisition of the perimeter security barriers may be through a design/ build contract; however, complexities of the public domain require a more traditional design/ bid/ build scenario. Acquisition of smaller projects requiring new design and construction services will be accomplished through existing relationships such as GSA (Blanket Purchase Agreements) and SI Indefinite Delivery Indefinite Quantity (IDIQ) contracts. Some other elements will be accomplished through modifications to existing design and construction projects.

**PART III: CURRENT STATUS** (describe performance against milestones)

OPS has completed risk assessments of all major SI facilities; completed blast assessments of NMNH, NMAH, NASM, AIB, POB and HMSG; installed temporary barriers around NASM, NMNH and NMAH and partial barriers at HMSG; implemented full electronic screening of all visitors at NASM and temporary screening at NMNH and NMAH; awarded installation of select CCTV, Emergency Voice (or P/A) Systems and Glass Mitigation projects; and initiated design of Mall-wide permanent perimeter barriers. Additionally, other perimeter CCTV and Emergency Voice systems are in design. Mall-wide design for concept & schematic phases of permanent barriers is underway with \$1.2 million FY 2002 funds; Phase one installation will be funded by \$7.5 million FY2003 S&E no-year anti-terrorism funds. Glass mitigation at some Mall facilities is ongoing with \$1.4 million FY 2003 funds.





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| PART I. A. SUMMARY OF PROJECT INFORMATION  |  |                                      |     |
|--|--|--------------------------------------|-----|
| Location   | Kitt Peak National Observatory, Arizona  |                                      |     |
| Program Unit Sponsor   | Smithsonian Astrophysical Observatory  |                                      |     |
| Account Title  | Facilities Capital, Construction   |                                      |     |
| Account Identification Code  |  |                                      |     |
| Name of Project  | VERITAS Control Building   |                                      |     |
| Project Number   | 0383103  |                                      |     |
| Project Partners   | Iowa State Univ., Purdue Univ., Univ. of Chicago, UCLA, Univ. of Utah, Washington Univ., Leeds Univ. (UK), McGill Univ., (Can)., National Univ. of Ireland, National Science Foundation, U.S. Department of Energy |                                      |     |
| This Project Is:   | New Construction: XXX  | Revitalization of Existing Facility: |     |
| Project/Useful segment is funded:  | Incrementally:   | Fully:                               | XXX |
| Did the Capital Planning Board approve the project?                                      | Date:  | January 2003                         |     |
| Did the Capital Planning Board approve the current funding proposal?                     | Date:  | April 2003                           |     |
| Did the Smithsonian Board of Regents approve the project? (If not required, indicate NA) | Date:  | September 2001                       |     |
| Did Congress authorize the project? (If not required, indicate NA)                       | Date:  | NA                                   |     |

| B. PROJECT BASELINE  |   |
|--|---|
| Initial Baseline Date: August 2003   | Date of Baseline Change: Indicate Here if Preliminary: XXXX |
| <p><b>1. Project Scope:</b> The Very Energetic Radiation Imaging Telescope Array System (VERITAS) observatory represents a dramatic step forward in the study of extreme astrophysical processes in the universe. The field of ground-based gamma-ray astronomy has been revolutionized by the power of the atmospheric Cherenkov imaging technique. This technique was developed by the Smithsonian Whipple Observatory Gamma-Ray Collaboration. The VERITAS observatory will advance our understanding of the origin of cosmic rays, the nature of galactic jets, the density of the background infrared radiation, and the magnetic fields within supernova remnants. External reviews of VERITAS have been uniformly glowing. The latest, carried out for the National Science Foundation and the Department of Energy in December 2002 concluded that VERITAS has high intellectual merit and should have a broad impact on the scientific community and society in general; that VERITAS will address a rich and compelling list of science goals; and that it will occupy a central place in the high energy astrophysics of the next decade, leveraging the results expected from GLAST and other high energy missions and forging strong connections with the wider astrophysics community.</p> <p>The completed array will consist of seven, 34-foot-aperture telescopes placed at the corners and center of a hexagon with 279-foot long sides. Each large reflector will have a sophisticated camera at its focus. The initial project will install four telescopes, with the remaining three to be added at a later time to complete the array. The project includes construction of site infrastructure improvements, foundation piers, support structures and a central control building. The project partners are sharing the cost of the project. The Smithsonian's share of the construction effort is to construct the central control building. This building is expected to be a single story steel frame structure of non-combustible construction. The control building will house sophisticated electronic equipment to receive and correlate the data gathered at each of the telescopes in the array. This work is needed in order to complete the array. The funds to complete other elements of the total project, including site improvements, utility extensions, telescopes and foundations will be provided by the project partners.</p> |   |
| <b>2. Detail of Overall Project Schedule</b>   | Month & Year  |
| Planning/Design Start Date:  | August 1996   |
| Design Completion Date:  | June 2004   |
| Construction Start Date:   | November 2004   |
| Construction Completion Date:  | April 2005  |
| Building Occupancy Date:   | May 2005  |
| Public Opening Date (if applicable):   | NA  |





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| 3. Detail of Total Project Cost Estimate   |                          | Amount in \$Millions |
|--|--------------------------|----------------------|
| <b>CAPITAL COSTS</b>   |                          |                      |
| Planning/Design  |                          |                      |
| Revitalization/Construction  |                          | .880                 |
| Contingency  | Percentage: 12.5% of .88 | .110                 |
| Construction Management  | Percentage:              |                      |
| Building Commissioning   | Percentage:              |                      |
| <b>TOTAL CAPITAL COSTS:</b>  |                          | <b>.990</b>          |
| Non-capital Costs (fundraising, relocation, one-time occupancy costs, exhibits installation)   |                          |                      |
| <b>TOTAL PROJECT COST</b>  |                          | <b>.990</b>          |
| Explanation of Basis/methodology for Cost Estimates (indicate stage of design or other assumptions used)   |                          |                      |
| Estimates based on preliminary A/E studies for the central control building project only. Remaining project costs will be funded by NSF and DOE and are not included here. |                          |                      |

| C. SUMMARY OF FUNDING FOR PROJECT STAGES   |                 |                       |       |       |       |       |       |                        |       |
|--|-----------------|-----------------------|-------|-------|-------|-------|-------|------------------------|-------|
| \$ Millions (1 decimal place)  | Prior           | FY 04                 | FY 05 | FY 06 | FY 07 | FY 08 | FY 09 | Outyears               | Total |
| <b>INITIAL PROJECT BASELINE:</b>   | <b>FY: 2005</b> | <b>Request to OMB</b> |       |       |       |       |       | <b>Date: Sept 2003</b> |       |
| FEDERAL Capital Costs  |                 |                       | .990  |       |       |       |       |                        | .990  |
| TRUST Capital Costs  |                 |                       |       |       |       |       |       |                        |       |
| <b>TOTAL CAPITAL COSTS</b>   |                 |                       | .990  |       |       |       |       |                        | .990  |
| Non-Capital Costs  |                 |                       |       |       |       |       |       |                        |       |
| <b>TOTAL PROJECT FUNDS:</b>  |                 |                       | .990  |       |       |       |       |                        | .990  |
| <b>PRIOR BUDGET REQUEST</b>  |                 |                       |       |       |       |       |       |                        |       |
| <b>FY:</b>   |                 |                       |       |       |       |       |       |                        |       |
| FEDERAL Capital Costs  |                 |                       |       |       |       |       |       |                        |       |
| TRUST Capital Costs  |                 |                       |       |       |       |       |       |                        |       |
| <b>TOTAL CAPITAL COSTS</b>   |                 |                       |       |       |       |       |       |                        |       |
| Non-Capital Costs  |                 |                       |       |       |       |       |       |                        |       |
| <b>TOTAL PROJECT FUNDS:</b>  |                 |                       |       |       |       |       |       |                        |       |
| <b>CURRENT BUDGET REQUEST</b>  |                 |                       |       |       |       |       |       |                        |       |
| <b>FY: 2005</b>  |                 |                       |       |       |       |       |       |                        |       |
| <b>Request to OMB</b>  |                 |                       |       |       |       |       |       |                        |       |
| <b>Date: Sept 2003</b>   |                 |                       |       |       |       |       |       |                        |       |
| FEDERAL Capital Costs  |                 |                       | .990  |       |       |       |       |                        | .990  |
| TRUST Capital Costs  |                 |                       |       |       |       |       |       |                        |       |
| <b>TOTAL CAPITAL COSTS</b>   |                 |                       | .990  |       |       |       |       |                        | .990  |
| Non-Capital Costs  |                 |                       |       |       |       |       |       |                        |       |
| <b>TOTAL PROJECT FUNDS:</b>  |                 |                       | .990  |       |       |       |       |                        | .990  |
| <b>CHANGES (Prior Request to Current Request)</b>  |                 |                       |       |       |       |       |       |                        |       |
| FEDERAL Capital Costs  |                 |                       |       |       |       |       |       |                        |       |
| TRUST Capital Costs  |                 |                       |       |       |       |       |       |                        |       |
| <b>TOTAL CAPITAL COSTS</b>   |                 |                       |       |       |       |       |       |                        |       |
| Non-Capital Costs  |                 |                       |       |       |       |       |       |                        |       |
| <b>TOTAL PROJECT FUNDS:</b>  |                 |                       |       |       |       |       |       |                        |       |
| <b>Explanation of Baseline Change</b> (detail of factors that affected changed scope, schedule and/or costs):  |                 |                       |       |       |       |       |       |                        |       |
| Since the Institution's initial request for funding to construct the VERITAS facility, OMB determined that the Smithsonian would be responsible only \$0.990 million of project construction. Funding for the balance of the facility construction will be requested by NSF and DOE. |                 |                       |       |       |       |       |       |                        |       |



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| D. OPERATING COST PROJECTIONS  |  |     |              |
|--|--|-----|--------------|
| ESTIMATED ANNUAL OPERATING COST  | Date of First Full Year Occupancy (FY): 2006 | FTE | Amount (\$M) |
| Programmatic Costs (Museum Federal and Trust costs)  |  |     |              |
| Facilities Costs (Maintenance, Operations Security & Support):   |  |     |              |
| Central SI Support Costs (Overhead):   |  |     |              |
| <b>TOTAL ANNUAL OPERATING COST:</b>  |  |     | <b>TBD</b>   |
| Explanation of basis/methodology for cost estimates (assumptions used, notes on unit preparing estimates): |  |     |              |
| Estimated facilities costs are currently under development.  |  |     |              |

| E. SUMMARY OF OPERATIONS FUNDING                  |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
|---|-----------------|----|-------|----|------------------------|----|-------|----|-------|----|-------|----|------------------------|----|----------|----|
| \$ Millions (1 decimal place)                     | Prior           |    | FY 04 |    | FY 05                  |    | FY 06 |    | FY 07 |    | FY 08 |    | FY 09                  |    | Outyears |    |
|   | FTE             | \$ | FTE   | \$ | FTE                    | \$ | FTE   | \$ | FTE   | \$ | FTE   | \$ | FTE                    | \$ | FTE      | \$ |
| <b>INITIAL OPERATIONS ESTIMATE:</b>               | <b>FY: 2005</b> |    |       |    | <b>Request to OMB:</b> |    |       |    |       |    |       |    | <b>Date: Sept 2003</b> |    |          |    |
| TOTAL FEDERAL OPERATING COST:                     |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
| TOTAL TRUST OPERATING COST:                       |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
| TOTAL ANNUAL OPERATING COST:                      |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
| <b>PRIOR BUDGET REQUEST</b>                       | <b>FY:</b>      |    |       |    | <b>Request to OMB:</b> |    |       |    |       |    |       |    | <b>Date</b>            |    |          |    |
| TOTAL FEDERAL OPERATING COST:                     |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
| TOTAL TRUST OPERATING COST:                       |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
| TOTAL ANNUAL OPERATING COST:                      |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
| <b>CURRENT BUDGET REQUEST</b>                     | <b>FY: 2005</b> |    |       |    | <b>Request to OMB:</b> |    |       |    |       |    |       |    | <b>Date: Sept 2003</b> |    |          |    |
| TOTAL FEDERAL OPERATING COST:                     |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
| TOTAL TRUST OPERATING COST:                       |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
| TOTAL ANNUAL OPERATING COST:                      |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
| <b>CHANGES (Prior Request to Current Request)</b> |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
| TOTAL FEDERAL OPERATING COST:                     |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
| TOTAL TRUST OPERATING COST:                       |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
| TOTAL ANNUAL OPERATING COST:                      |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |
| <b>Explanation of Change:</b>                     |                 |    |       |    |                        |    |       |    |       |    |       |    |                        |    |          |    |



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**PART II: JUSTIFICATION AND OTHER INFORMATION**

**A. Justification** (describe why the project is needed, including specific dates required, programs supported, and alternatives analysis):

SAO astronomers have been pioneers in ground-based gamma ray observation technology. Discoveries made at the SAO F. L. Whipple Observatory in Arizona form the basis for the development of the Very Energetic Radiation Imaging Telescope Array System (VERITAS). Funding support for the telescope array is provided by a consortium including SAO, the US Department of Energy, the National Science Foundation and ten other research institutions in the US and abroad. The Institution's share of the cost of facilities necessary to support and operate the telescope array involves designing and constructing the central control building. Funding to construct the site improvements and other elements of the array will be included in DOE and NSF budget requests.

**B. Project/Program Management** (indicate key staff/organization responsible for this project):

|  |  |
|--|--|
| Project Executive (if applicable):                           |  |
| Project Manager:   | Tom Myers, Office of Project Management, OFEO              |
| Design Manager:  | Tom Myers, Office of Project Management, OFEO              |
| Construction Manager (Res. Engineer):                        | Stephen J. Criswell, Smithsonian Astrophysical Observatory |
| Program Manager/Liaison & Unit                               | Stephen J. Criswell, Smithsonian Astrophysical Observatory |
| Other Management Plans (Executive/Steering Committees, etc.) |  |
| To be determined.  |  |

**C. Acquisition Plan** (describe proposed contracting methodology):

Bids for construction will be solicited via a request for proposal in the Commerce Business Daily. Competition will be based on best value, technical ability of offerors and price. The contract will be awarded on a firm fixed price for the base construction with options for alternates. Alternates will be determined during the development of the construction documents.

**PART III: CURRENT STATUS** (describe performance against milestones)

During FY 2003-FY2004, the Smithsonian will complete concept planning and preparing designs for the control building and its location on the site. Design of remaining facilities to support the array will be completed in summer 2004, and construction is scheduled to begin in November 2004 and to be completed in April 2005.





## **Smithsonian Institution Motor Vehicle Fleet**

There have been no significant changes in the size/cost of the Smithsonian motor vehicle fleet. The Institution does not anticipate any significant changes in this year or future years.

Vehicles are assigned to organizations based upon their mission and functional responsibilities. Approximately 70-75 percent of the vehicle fleet directly supports maintenance related or pan-institutional activities (i.e. Shuttle/Cargo, Audio Visual Services, Research, Construction, Safety, and Mail). The remainder of the fleet supports various administrative functions that require staff to travel to various SI locations primarily in the DC Metro area.

The recommended replacement cycle for motor vehicles by GSA is 5 years or 60,000 miles. The age of approximately 50 percent of the Smithsonian vehicle fleet is currently 17 years or older. It is the Smithsonian's goal, as funds become available, to replace our fleet over a six to seven year period, and to maintain a replacement program in line with the GSA-recommended standard.



## MOTOR VEHICLE FLEET REPORT

Size, Composition, and Annual Cost  
(in thousands of dollars)

Agency: Smithsonian Institution

| Fiscal<br>Year | Number of Vehicles by Type * |                     |     |                  |                 |                 |       | Total<br>Vehicles | Annual<br>Operating<br>Costs |
|----------------|------------------------------|---------------------|-----|------------------|-----------------|-----------------|-------|-------------------|------------------------------|
|                | Sedans &<br>Station Wagons   | Light Trucks<br>4X2 | 4X4 | Medium<br>Trucks | Heavy<br>Trucks | Am-<br>bulances | Buses |                   |                              |
| <b>FY 2002</b> | 28                           | 191                 | 139 | 32               | 25              | 0               | 8     | 423               | 1,277                        |
| Change         | 1                            | 15                  | 5   | -5               | -10             | 0               | 1     | 7                 | 518                          |
| <b>FY 2003</b> | 29                           | 206                 | 144 | 27               | 15              | 0               | 9     | 430               | 1,795                        |
| Change         | 2                            | 4                   | 2   | 1                | 0               | 0               | -1    | 8                 | 370                          |
| <b>FY 2004</b> | 31                           | 210                 | 146 | 28               | 15              | 0               | 8     | 438               | 2,165                        |
| Change         | 0                            | 5                   | 7   | 2                | 1               | 0               | 1     | 16                | 395                          |
| <b>FY 2005</b> | 31                           | 215                 | 153 | 30               | 16              | 0               | 9     | 454               | 2,560                        |

NOTES:

\* These numbers include vehicles that are owned by the agency, leased from commercial sources, and leased from GSA.



(in millions of dollars)

| Agency | Bureau | Line No. | Description  | PY                | CY   | BY   |
|--------|--------|----------|--|-------------------|------|------|
|        |        |          | <b>Report on Resources for Financial Management Activities</b> |                   |      |      |
|        |        |          | <b>Accounting and Reporting</b>                                |                   |      |      |
|        |        | 2001     | No. of FTE   | 265               | 265  | 260  |
|        |        | 2002     | Obligations/Budgetary Resources                                | 20.0              | 21.0 | 21.0 |
|        |        |          | <b>Contractor Accounting and Reporting</b>                     |                   |      |      |
|        |        | 2102     | Obligations/Budgetary Resources                                | 0.5               | 0.6  | 0.7  |
|        |        |          | <b>Audits of Financial Statements</b>                          |                   |      |      |
|        |        | 3001     | No. of FTE   | 3                 | 3    | 3    |
|        |        | 3002     | Obligations/Budgetary Resources                                | 0.5               | 0.6  | 0.6  |
|        |        |          | <b>Financial Management Systems</b>                            |                   |      |      |
|        |        | 4001     | No. of FTE   | 8                 | 20   | 20   |
|        |        | 4002     | Obligations/Budgetary Resources                                | 3.7               | 5.9  | 9.2  |
|        |        |          | <b>Subtotal</b>  |                   |      |      |
|        |        | 5001     | No. of FTE   | 276               | 288  | 283  |
|        |        | 5002     | Obligations/Budgetary Resources                                | 24.7              | 28.1 | 31.5 |
|        |        |          | <b>Adjustments</b>   |                   |      |      |
|        |        | 6001     | No. of FTE   | 0                 | 0    | 0    |
|        |        | 6002     | Obligations/Budgetary Resources                                | 0.0               | 0.0  | 0.0  |
|        |        |          | <b>Total, net</b>  |                   |      |      |
|        |        | 7001     | No. of FTE   | 276               | 288  | 283  |
|        |        | 7002     | Obligations/Budgetary Resources                                | 24.7              | 28.1 | 31.5 |
|        |        |          | <b>Audits of Financial Statements</b>                          |                   |      |      |
|        |        |          | <b>Component Contracts Audit Costs</b>                         |                   |      |      |
|        |        | 8102     | Obligations/Budgetary Resources                                | 0.0               | 0.0  | 0.0  |
|        |        |          | <b>Component In-house Costs</b>                                |                   |      |      |
|        |        | 8201     | No. of FTE   | 0                 | 0    | 0    |
|        |        | 8202     | Obligations/Budgetary Resources                                | 0.0               | 0.0  | 0.0  |
|        |        |          | <b>Org-wide Financial Statements:</b>                          |                   |      |      |
|        |        |          | <b>Contract Audit Costs</b>                                    |                   |      |      |
|        |        | 9102     | Obligations/Budgetary Resources                                | 0.4               | 0.5  | 0.6  |
|        |        |          | <b>In-House Audit Costs</b>                                    |                   |      |      |
|        |        | 9201     | No. of FTE   | 3                 | 3    | 3    |
|        |        | 9202     | Obligations/Budgetary Resources                                | 0.2               | 0.2  | 0.2  |
|        |        |          | <b>Total, all reporting entries:</b>                           |                   |      |      |
|        |        | 9401     | No. of FTE   | 3                 | 3    | 3    |
|        |        | 9402     | Obligations/Budgetary Resources                                | 0.6               | 0.7  | 0.8  |
|        |        | 9998     | <b>Agency Contact</b>  | Minnie Carmichael |      |      |
|        |        | 9999     | <b>Telephone Number</b>  | (202) 275-0322    |      |      |





Exhibit 53 Name

|                         |                                 |  | Investment Title  | Investment Description                                  | Total Investment |       |       | Percentage |             | Homeland Security                           |    | DIVE |    | Steady State |      |        |       |       |        |
|-------------------------|---------------------------------|--|---|---|------------------|-------|-------|------------|-------------|---|----|------|----|--------------|------|--------|-------|-------|--------|
|                         |                                 |  |   |   | PV               | CY    | BY    | Financial  | IT Security | Priority Identifier (Select all that apply) | PV | CY   | BY | PY           | CY   | BY     |       |       |        |
| 2004 UPI                | 2005 UPI                        |  |   |   |                  |       |       |            |             |   |    |      |    |              |      |        |       |       |        |
| 452-00-00-00-0000-00    | 452-00-00-00-0000-00-000-000    |  | Agency Total IT Investment Portfolio                    | Agency Total IT Investment Portfolio                    | 54.57            | 63.93 | 68.6  |            |             |   |    |      |    | 14.81        | 22.4 | 19.061 | 39.76 | 41.57 | 49.548 |
| 452-00-01-00-0000-00    | 452-00-01-00-0000-00-000-000    |  | Part 1, IT Systems by Mission Area                      | Part 1, IT Systems by Mission Area                      | 25.47            | 27.43 | 30.1  |            |             |   |    |      |    | 6.81         | 12.4 | 13.061 | 18.66 | 15.07 | 17.048 |
| 452-00-01-01-0000-00    | 452-00-01-01-0000-00-000-000    |  | Financial & Administrative Management                   | Financial & Administrative Management                   | 12.91            | 11.4  | 11.4  |            |             |   |    |      |    | 2.7          | 6.2  | 5.9    | 10.21 | 5.2   | 5.5    |
| 452-00-01-01-1001-00    | 452-00-01-01-1001-00-402-124    |  | Enterprise Resource Planning System                     | Enterprise finance & human resources mgmt               | 11.91            | 10.4  | 10.4  |            | 80          |   |    |      |    | 2.7          | 6.2  | 5.9    | 9.21  | 4.2   | 4.5    |
| 452-00-01-01-1001-00    | 452-00-01-01-1001-00-402-124    |  | Salaries & Expenses 33-0100-0                           | Salaries & Expenses 33-0100-0                           | 11.91            | 10.4  | 10.4  |            |             |   |    |      |    | 2.7          | 6.2  | 5.9    | 9.21  | 4.2   | 4.5    |
| 452-00-01-01-1002-00    | 452-00-01-01-1002-00-402-124    |  | Funding Source Subtotal                                 | Funding Source Subtotal                                 | 11.91            | 10.4  | 10.4  |            |             |   |    |      |    | 2.7          | 6.2  | 5.9    | 9.21  | 4.2   | 4.5    |
| 452-00-01-01-1002-00    | 452-00-01-01-1002-00-402-124    |  | Other Financial & Administrative Management             | Other financial & administrative mgmt                   | 1                | 1     | 1     |            |             |   |    |      |    | 0            | 0    | 0      | 1     | 1     | 1      |
| 452-00-01-01-1002-00    | 452-00-01-01-1002-00-402-124    |  | Salaries & Expenses 33-0100-0                           | Salaries & Expenses 33-0100-0                           | 1                | 1     | 1     |            | 100         |   |    |      |    | 0            | 0    | 0      | 1     | 1     | 1      |
| 452-00-01-01-1002-00    | 452-00-01-01-1002-00-402-124    |  | Funding Source Subtotal                                 | Funding Source Subtotal                                 | 1                | 1     | 1     |            |             |   |    |      |    | 0            | 0    | 0      | 1     | 1     | 1      |
| 452-00-01-02-01-0000-00 | 452-00-01-02-01-0000-00-000-000 |  | Collections   | Collections   | 10.14            | 13.3  | 14.93 |            |             |   |    |      |    | 3.92         | 6.01 | 6.25   | 6.22  | 7.33  | 8.68   |
| 452-00-01-02-01-1001-00 | 452-00-01-02-01-1001-00-106-017 |  | ArtCIS  | Art collections management & information                | 0.87             | 0.9   | 0.98  |            |             |   |    |      |    | 0.07         | 0.06 | 0.007  | 0.8   | 0.84  | 0.97   |
| 452-00-01-02-01-1001-00 | 452-00-01-02-01-1001-04-106-017 |  | Salaries & Expenses 33-0100-0                           | Salaries & Expenses 33-0100-0                           | 0.87             | 0.9   | 0.98  |            |             |   |    |      |    | 0.07         | 0.06 | 0.007  | 0.8   | 0.84  | 0.97   |
| 452-00-01-02-01-1002-00 | 452-00-01-02-01-1001-09-106-017 |  | Funding Source Subtotal                                 | Funding Source Subtotal                                 | 0.87             | 0.9   | 0.98  |            |             |   |    |      |    | 0.07         | 0.06 | 0.007  | 0.8   | 0.84  | 0.97   |
| 452-00-01-02-01-1002-00 | 452-00-01-02-01-1002-04-106-017 |  | Salaries & Expenses 33-0100-0                           | National Museum of the American Indian Coll Info System | 3                | 5.5   | 3.6   |            |             |   |    |      |    | 2.7          | 5.4  | 3.4    | 0.3   | 0.1   | 0.2    |
| 452-00-01-02-01-1002-00 | 452-00-01-02-01-1002-09-106-017 |  | Funding Source Subtotal                                 | Salaries & Expenses 33-0100-0                           | 3                | 5.5   | 3.6   |            |             |   |    |      |    | 2.7          | 5.4  | 3.4    | 0.3   | 0.1   | 0.2    |
| 452-00-01-02-01-1003-00 | 452-00-01-02-01-1003-00-106-017 |  | Natl Museum of American History Collections Info System | Collections management & information                    | 0.33             | 0.38  | 0.34  |            |             |   |    |      |    | 0.04         | 0.02 | 0      | 0.29  | 0.36  | 0.34   |
| 452-00-01-02-01-1003-00 | 452-00-01-02-01-1003-00-106-017 |  | Salaries & Expenses 33-0100-0                           | Salaries & Expenses 33-0100-0                           | 0.33             | 0.38  | 0.34  |            |             |   |    |      |    | 0.04         | 0.02 | 0      | 0.29  | 0.36  | 0.34   |
| 452-00-01-02-01-1003-00 | 452-00-01-02-01-1003-09-106-017 |  | Funding Source Subtotal                                 | Funding Source Subtotal                                 | 0.33             | 0.38  | 0.34  |            |             |   |    |      |    | 0.04         | 0.02 | 0      | 0.29  | 0.36  | 0.34   |
| 452-00-01-02-01-1004-00 | 452-00-01-02-01-1004-00-106-017 |  | SIIRIS  | Smithsonian Institution Research Info System            | 1.07             | 1.2   | 2.42  |            |             |   |    |      |    |              | 0    | 0      | 1.15  | 1.07  | 1.2    |
| 452-00-01-02-01-1004-00 | 452-00-01-02-01-1004-04-106-017 |  | Salaries & Expenses 33-0100-0                           | Salaries & Expenses 33-0100-0                           | 1.07             | 1.2   | 2.42  |            |             |   |    |      |    | 0            | 0    | 1.15   | 1.07  | 1.2   | 1.27   |
| 452-00-01-02-01-1005-00 | 452-00-01-02-01-1005-00-106-017 |  | Funding Source Subtotal                                 | Funding Source Subtotal                                 | 1.07             | 1.2   | 2.42  |            |             |   |    |      |    | 0            | 0    | 1.15   | 1.07  | 1.2   | 1.27   |
| 452-00-01-02-01-1005-00 | 452-00-01-02-01-1005-00-106-017 |  | National Air & Space Museum Collections Info System     | Collections management & information                    | 0.44             | 0.45  | 0.7   |            |             |   |    |      |    | 0.1          | 0.07 | 0.04   | 0.34  | 0.38  | 0.66   |
| 452-00-01-02-01-1005-00 | 452-00-01-02-01-1005-04-106-017 |  | Salaries & Expenses 33-0100-0                           | Salaries & Expenses 33-0100-0                           | 0.44             | 0.45  | 0.7   |            |             |   |    |      |    | 0.1          | 0.07 | 0.04   | 0.34  | 0.38  | 0.66   |
| 452-00-01-02-01-1005-00 | 452-00-01-02-01-1005-09-106-017 |  | Funding Source Subtotal                                 | Funding Source Subtotal                                 | 0.44             | 0.45  | 0.7   |            |             |   |    |      |    | 0.1          | 0.07 | 0.04   | 0.34  | 0.38  | 0.66   |
| 452-00-01-02-01-1006-00 | 452-00-01-02-01-1006-00-106-017 |  | Collections Information Systems Pool                    | Collections information resources mgmt                  | 0                | 1     | 1     |            |             |   |    |      |    | 0            | 0    | 0      | 3.3   | 3.3   | 3.3    |
| 452-00-01-02-01-1006-00 | 452-00-01-02-01-1006-04-106-017 |  | Salaries & Expenses 33-0100-0                           | Salaries & Expenses 33-0100-0                           | 0                | 1     | 1     |            |             |   |    |      |    | 0            | 0    | 0      | 3.3   | 3.3   | 3.3    |
| 452-00-01-02-01-1006-00 | 452-00-01-02-01-1006-09-106-017 |  | Funding Source Subtotal                                 | Funding Source Subtotal                                 | 0                | 1     | 1     |            |             |   |    |      |    | 0            | 0    | 0      | 3.3   | 3.3   | 3.3    |
| 452-00-01-02-01-1007-00 | 452-00-01-02-01-1007-00-106-017 |  | Research & Collections Information System               | Natural history collections mgmt & info                 | 4.13             | 3.65  | 4.87  |            |             |   |    |      |    | 0.81         | 0.3  | 0.73   | 3.32  | 3.35  | 4.14   |
| 452-00-01-02-01-1007-00 | 452-00-01-02-01-1007-04-106-017 |  | Salaries & Expenses 33-0100-0                           | Salaries & Expenses 33-0100-0                           | 4.13             | 3.65  | 4.87  |            |             |   |    |      |    | 0.81         | 0.3  | 0.73   | 3.32  | 3.35  | 4.14   |
| 452-00-01-02-01-1007-00 | 452-00-01-02-01-1007-09-106-017 |  | Funding Source Subtotal                                 | Funding Source Subtotal                                 | 4.13             | 3.65  | 4.87  |            |             |   |    |      |    | 0.81         | 0.3  | 0.73   | 3.32  | 3.35  | 4.14   |
| 452-00-01-02-01-1008-00 | 452-00-01-02-01-1008-00-106-017 |  | National Postal Museum Collections Info System          | Collections management & information                    | 0.26             | 0.26  | 0.26  |            |             |   |    |      |    | 0.16         | 0.16 | 0.16   | 0.1   | 0.1   | 0.1    |
| 452-00-01-02-01-1008-00 | 452-00-01-02-01-1008-04-106-017 |  | Salaries & Expenses 33-0100-0                           | Salaries & Expenses 33-0100-0                           | 0.26             | 0.26  | 0.26  |            |             |   |    |      |    | 0.16         | 0.16 | 0.16   | 0.1   | 0.1   | 0.1    |
| 452-00-01-02-01-1008-00 | 452-00-01-02-01-1008-09-106-017 |  | Funding Source Subtotal                                 | Funding Source Subtotal                                 | 0.26             | 0.26  | 0.26  |            |             |   |    |      |    | 0.16         | 0.16 | 0.16   | 0.1   | 0.1   | 0.1    |
| 452-00-01-02-01-1009-00 | 452-00-01-02-01-1009-00-106-017 |  | Photo Collections Information System                    | Institution-wide photo collections system               | 0.04             | 0     | 0.76  |            |             |   |    |      |    | 0.04         | 0    | 0.76   | 0     | 0     | 0      |
| 452-00-01-02-01-1009-00 | 452-00-01-02-01-1009-04-106-017 |  | Salaries & Expenses 33-0100-0                           | Salaries & Expenses 33-0100-0                           | 0.04             | 0     | 0.76  |            |             |   |    |      |    | 0.04         | 0    | 0.76   | 0     | 0     | 0      |
| 452-00-01-02-01-1009-00 | 452-00-01-02-01-1009-09-106-017 |  | Funding Source Subtotal                                 | Funding Source Subtotal                                 | 0.04             | 0     | 0.76  |            |             |   |    |      |    | 0.04         | 0    | 0.76   | 0     | 0     | 0      |
| 452-00-01-03-00-0000-00 | 452-00-01-03-00-0000-00-401-119 |  | Facilities  | Facilities  | 0.59             | 0.85  | 0.87  |            |             |   |    |      |    | 0.19         | 0.19 | 0.19   | 0.4   | 0.66  | 0.66   |
| 452-00-01-03-01-1001-00 | 452-00-01-03-01-1001-00-401-119 |  | Facilities Management System                            | Facilities management & information                     | 0.59             | 0.85  | 0.87  |            |             |   |    |      |    | 0.19         | 0.19 | 0.19   | 0.4   | 0.66  | 0.66   |
| 452-00-01-03-01-1001-00 | 452-00-01-03-01-1001-04-401-119 |  | Salaries & Expenses 33-0100-0                           | Salaries & Expenses 33-0100-0                           | 0.59             | 0.85  | 0.87  |            |             |   |    |      |    | 0.19         | 0.19 | 0.19   | 0.4   | 0.66  | 0.66   |
| 452-00-01-03-01-1001-00 | 452-00-01-03-01-1001-09-401-119 |  | Funding Source Subtotal                                 | Funding Source Subtotal                                 | 0.59             | 0.85  | 0.87  |            |             |   |    |      |    | 0.19         | 0.19 | 0.19   | 0.4   | 0.66  | 0.66   |
| 452-00-01-04-01-0000-00 | 452-00-01-04-00-0000-00-109-026 |  | Scientific Computing                                    | Scientific Computing                                    | 1.83             | 1.9   | 2.9   |            |             |   |    |      |    | 0            | 0    | 0.721  | 1.83  | 1.83  | 2.188  |
| 452-00-01-04-01-1001-00 | 452-00-01-04-01-1001-00-109-026 |  | Smithsonian Astrophysical Observatory                   | Research in astronomy & astrophysics                    | 1.83             | 1.75  | 2     |            |             |   |    |      |    | 0            | 0    | 0      | 1.83  | 1.75  | 2      |
| 452-00-01-04-01-1001-00 | 452-00-01-04-01-1001-00-109-026 |  | Salaries & Expenses 33-0100-0                           | Salaries & Expenses 33-0100-0                           | 1.83             | 1.75  | 2     |            |             |   |    |      |    | 0            | 0    | 0      | 1.83  | 1.75  | 2      |
| 452-00-01-04-01-1001-00 | 452-00-01-04-01-1001-09-109-026 |  | Funding Source Subtotal                                 | Funding Source Subtotal                                 | 1.83             | 1.75  | 2     |            |             |   |    |      |    | 0            | 0    | 0      | 1.83  | 1.75  | 2      |



## Agency IT Investment Portfolio

Exhibit 53 Name

|  |          | Investment Title                | Investment Description                        | Total Investment |       |       | Percentage |             | Homeland Security<br>Priority Identifier (Select all that apply) | DME |    |       | Steady State |      |       |
|--|----------|---------------------------------|---|------------------|-------|-------|------------|-------------|--|-----|----|-------|--------------|------|-------|
|  |          |                                 |   | PY               | CY    | BY    | Financial  | IT Security |  | PY  | CY | BY    | PY           | CY   | BY    |
| 2004 UPI   | 2005 UPI | 452-00-01-04-01-1003-00-109-026 | Natural Science Geographic Information System | 0                | 0.125 | 0.909 |            |             |  | 0   | 0  | 0.721 | 0            | 0.13 | 0.188 |
|  |          | 452-00-01-04-01-1003-04-109-026 | Salaries & Expenses 33-0100-0                 | 0                | 0.125 | 0.909 |            |             |  | 0   | 0  | 0.721 | 0            | 0.13 | 0.188 |
|  |          | 452-00-01-04-01-1003-09-109-026 | Funding Source Subtotal                       | 0                | 0.125 | 0.909 |            |             |  | 0   | 0  | 0.721 | 0            | 0.13 | 0.188 |
| 452-00-02-00-00-0000-00<br>452-00-02-00-00-1001-00<br>452-00-02-00-01-1001-00-404-139<br>452-00-02-00-01-1001-04-404-139<br>452-00-02-00-01-1001-09-404-139<br>452-00-02-00-01-1002-00-404-139<br>452-00-02-00-01-1002-04-404-139<br>452-00-02-00-01-1002-09-404-139 |          | 452-00-02-00-00-0000-00         | Part 2 IT Infrastructure & Office Automation  | 29.1             | 36.5  | 38.5  |            |             |  | 8   | 10 | 6     | 21.1         | 26.5 | 32.5  |
|  |          | 452-00-02-00-00-1001-00         | Managed Information Technology Infrastructure | 29               | 36    | 38    |            |             |  | 8   | 10 | 6     | 21           | 26   | 32    |
|  |          | 452-00-02-00-01-1001-00-404-139 | Salaries & Expenses 33-0100-0                 | 29               | 36    | 38    |            |             |  | 8   | 10 | 6     | 21           | 26   | 32    |
|  |          | 452-00-02-00-01-1001-04-404-139 | Funding Source Subtotal                       | 29               | 36    | 38    |            |             |  | 8   | 10 | 6     | 21           | 26   | 32    |
|  |          | 452-00-02-00-01-1001-09-404-139 | Information Resources Management Pool         | 0.1              | 0.5   | 0.5   |            |             |  | 0   | 0  | 0     | 0.1          | 0.5  | 0.5   |
|  |          | 452-00-02-00-01-1002-00-404-139 | Salaries & Expenses 33-0100-0                 | 0.1              | 0.5   | 0.5   |            |             |  | 0   | 0  | 0     | 0.1          | 0.5  | 0.5   |
|  |          | 452-00-02-00-01-1002-04-404-139 | Funding Source Subtotal                       | 0.1              | 0.5   | 0.5   |            |             |  | 0   | 0  | 0     | 0.1          | 0.5  | 0.5   |



## Space Budget Justification

Agency: Smithsonian InstitutionBureau: (OIA)GSA Bureau Code: 3300Date: September 15, 2003

### Smithsonian Institution (obligations in thousands of dollars)

|                                | FY 2003 |       | FY 2004 |       | FY 2005 |       | FY 2006 |       |
|--------------------------------|---------|-------|---------|-------|---------|-------|---------|-------|
| OMB approved inflation factor: | Sq. Ft. | \$000 | Sq. Ft. | \$000 | Sq. Ft. | \$000 | Sq. Ft. | \$000 |
|                                |         | 2.10% |         | 1.70% |         | 1.50% |         | 1.50% |

**PART 1: RENTAL PAYMENTS TO GSA**

|  |               |            |               |            |               |            |               |            |
|--|---------------|------------|---------------|------------|---------------|------------|---------------|------------|
| GSA rent estimate                        | 82,500        | \$0        | 82,000        | \$0        | 82,000        | \$0        | 82,000        | \$0        |
| Agency adjustments to the bill:          |               |            |               |            |               |            |               |            |
| Chargebacks:                             | 0             | \$0        | 0             | \$0        | 0             | \$0        | 0             | \$0        |
| Other adjustments                        | 0             | \$0        |               |            |               |            |               |            |
| Statutorily imposed rent caps            | 0             | \$0        |               |            |               |            |               |            |
| Planned changes to inventory:            |               |            |               |            |               |            |               |            |
| FY2003                                   | 0             | \$0        | 0             | \$0        | 0             | \$0        | 0             | \$0        |
| FY2004                                   |               |            | 0             | \$0        | 0             | \$0        | 0             | \$0        |
| FY2005                                   |               |            |               |            | 0             | \$0        | 0             | \$0        |
| FY2006                                   |               |            |               |            |               |            | 0             | \$0        |
| Requested program changes:               |               |            |               |            |               |            |               |            |
| FY2003                                   |               |            | 0             | \$0        | 0             | \$0        | 0             | \$0        |
| FY2004                                   |               |            |               |            | 0             | \$0        | 0             | \$0        |
| FY2005                                   |               |            |               |            |               |            | 0             | \$0        |
| FY2006                                   |               |            |               |            |               |            |               |            |
| <b>Total, net rental payments to GSA</b> | <b>82,500</b> | <b>\$0</b> | <b>82,000</b> | <b>\$0</b> | <b>82,000</b> | <b>\$0</b> | <b>82,000</b> | <b>\$0</b> |

**FUNDING SOURCES FOR RENTAL PAYMENTS to GSA**

## Funded by direct appropriations:

|   |     |  |     |  |     |  |     |  |
|---|-----|--|-----|--|-----|--|-----|--|
| Account title and ID code:                |     |  |     |  |     |  |     |  |
| Acct. 1 Salaries and expenses 016-10-1166 | \$0 |  | \$0 |  | \$0 |  | \$0 |  |
| Acct. 2 Miscellaneous Account 017-36-2222 | \$0 |  | \$0 |  | \$0 |  | \$0 |  |
| Acct. 3                                   | \$0 |  | \$0 |  | \$0 |  | \$0 |  |
| Acct. 4                                   | \$0 |  | \$0 |  | \$0 |  | \$0 |  |
| Acct. 5                                   | \$0 |  | \$0 |  | \$0 |  | \$0 |  |
| Acct. 6                                   | \$0 |  | \$0 |  | \$0 |  | \$0 |  |
| Acct. 7                                   | \$0 |  | \$0 |  | \$0 |  | \$0 |  |
| Acct. 8                                   | \$0 |  | \$0 |  | \$0 |  | \$0 |  |
| Subtotal, direct appropriations           | \$0 |  | \$0 |  | \$0 |  | \$0 |  |

## Funded by other sources:

|                                       |     |  |     |  |     |  |     |  |
|---------------------------------------|-----|--|-----|--|-----|--|-----|--|
| Account title and ID Code:            |     |  |     |  |     |  |     |  |
| Acct. 1 Resources control 016-12-2650 | \$0 |  | \$0 |  | \$0 |  | \$0 |  |
| Acct. 2 User Fees 016-12-2750         | \$0 |  | \$0 |  | \$0 |  | \$0 |  |
| Acct. 3                               | \$0 |  |     |  |     |  |     |  |
| Acct. 4                               | \$0 |  | \$0 |  | \$0 |  | \$0 |  |
| Acct. 5                               | \$0 |  | \$0 |  | \$0 |  | \$0 |  |
| Acct. 6                               | \$0 |  | \$0 |  | \$0 |  | \$0 |  |
| Subtotal, other funding sources       | \$0 |  | \$0 |  | \$0 |  | \$0 |  |

|  |            |  |            |  |            |  |            |  |
|--|------------|--|------------|--|------------|--|------------|--|
| <b>Total funding sources (object class 23.1)</b> | <b>\$0</b> |  | <b>\$0</b> |  | <b>\$0</b> |  | <b>\$0</b> |  |
|--|------------|--|------------|--|------------|--|------------|--|

|                           |            |  |            |  |            |  |            |  |
|---------------------------|------------|--|------------|--|------------|--|------------|--|
| <b>Control difference</b> | <b>\$0</b> |  | <b>\$0</b> |  | <b>\$0</b> |  | <b>\$0</b> |  |
|---------------------------|------------|--|------------|--|------------|--|------------|--|

**PART 2: RENTAL PAYMENTS TO OTHERS**

|   |                  |                 |                  |                 |                  |                 |                  |                 |
|---|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| Non-Federal sources (object class 23.2) | 1,210,667        | 15,271          | 1,197,004        | 13,169          | 1,297,454        | 19,169          | 1,209,700        | 19,552          |
| Federal sources (object class 25.3)     | 0                | 0               | 0                | 0               | 0                | 0               | 0                | 0               |
| <b>Total rental payments to others</b>  | <b>1,210,667</b> | <b>\$15,271</b> | <b>1,197,004</b> | <b>\$13,169</b> | <b>1,297,454</b> | <b>\$19,169</b> | <b>1,209,700</b> | <b>\$19,552</b> |





**SMITHSONIAN INSTITUTION**  
**PROJECTED OUTLAYS IN THE OUTYEARS**  
**FY 2005 - FY 2009**  
**(Dollars in Millions)**

|                       | FY 2005                 |                | FY 2006                 |                | FY 2007                 |                | FY 2008                 |                | FY 2009                 |                |
|-----------------------|-------------------------|----------------|-------------------------|----------------|-------------------------|----------------|-------------------------|----------------|-------------------------|----------------|
|                       | <u>Budget Authority</u> | <u>Outlays</u> | <u>Budget Authority</u> | <u>Outlays</u> | <u>Budget Authority</u> | <u>Outlays</u> | <u>Budget Authority</u> | <u>Outlays</u> | <u>Budget Authority</u> | <u>Outlays</u> |
| Salaries & Expenses   | 542                     | 533            | 569                     | 565            | 578                     | 577            | 595                     | 592            | 612                     | 609            |
| Facilities Capital    | 215                     | 116            | 161                     | 150            | 156                     | 175            | 152                     | 161            | 158                     | 155            |
| Special Foreign Curr. | 0                       | 2              | 0                       | 0              | 0                       | 0              | 0                       | 0              | 0                       | 0              |
| <b>Total</b>          | <b>757</b>              | <b>651</b>     | <b>730</b>              | <b>715</b>     | <b>734</b>              | <b>752</b>     | <b>747</b>              | <b>753</b>     | <b>770</b>              | <b>764</b>     |



Dollars in Thousands  
FTE = Full Time EquivalentSubtotal, Museums and Research Institutes



Dollars in Thousands  
FTE = Full Time Equivalent

**SMITHSONIAN INSTITUTION**  
**APPLICATION OF NONAPPROPRIATED TRUST FUNDS - Detail**

|  | General Trust |          |         |          |         |          | Donor / Sponsor Designated |          |         |          |         |          | Government Grants and Contracts |          |         |          |         |          |
|--|---------------|----------|---------|----------|---------|----------|----------------------------|----------|---------|----------|---------|----------|---------------------------------|----------|---------|----------|---------|----------|
|  | FY 2003       |          | FY 2004 |          | FY 2005 |          | FY 2003                    |          | FY 2004 |          | FY 2005 |          | FY 2003                         |          | FY 2004 |          | FY 2005 |          |
|  | FTE           | Estimate | FTE     | Estimate | FTE     | Estimate | FTE                        | Estimate | FTE     | Estimate | FTE     | Estimate | FTE                             | Estimate | FTE     | Estimate | FTE     | Estimate |
| PROGRAM SUPPORT AND OUTREACH                       |               |          |         |          |         |          |                            |          |         |          |         |          |                                 |          |         |          |         |          |
| Outreach   |               |          |         |          |         |          |                            |          |         |          |         |          |                                 |          |         |          |         |          |
| 6100 Smithsonian Inst. Traveling Exh. Svc.         | 11            | 707      | 11      | 720      | 11      | 620      | 0                          | 1,019    | 0       | 572      | 0       | 453      | 0                               | 0        | 0       | 0        | 0       | 0        |
| 3200 Center for Education & Museum Studies         | 4             | 546      | 6       | 526      | 6       | 527      | 0                          | 152      | 0       | 231      | 0       | 165      | 0                               | 91       | 0       | 123      | 0       | 110      |
| 9100 The Smithsonian Associates                    | 21            | 1,356    | 18      | 1,270    | 18      | 1,270    | 5                          | 909      | 4       | 808      | 4       | 634      | 0                               | 0        | 0       | 0        | 0       | 0        |
| 7400 Smithsonian Affiliation Program               | 11            | 908      | 11      | 943      | 12      | 929      | 0                          | 131      | 0       | 101      | 0       | 0        | 0                               | 0        | 0       | 0        | 0       | 0        |
| 6200 National Science Resources Center             | 8             | 873      | 8       | 923      | 8       | 898      | 6                          | 1,105    | 6       | 1,200    | 6       | 1,200    | 8                               | 1,250    | 8       | 1,250    | 8       | 1,250    |
| 9200 Smithsonian Press                             | 0             | 0        | 0       | 153      | 0       | 0        | 0                          | 162      | 0       | 31       | 0       | 0        | 0                               | 0        | 0       | 0        | 0       | 0        |
| 1900 Office of Fellowships and Grants              | 2             | 325      | 3       | 253      | 3       | 230      | 0                          | 183      | 0       | 223      | 0       | 208      | 0                               | 0        | 0       | 0        | 0       | 0        |
| Subtotal Outreach                                  | 57            | 4,715    | 57      | 4,788    | 58      | 4,474    | 11                         | 3,661    | 10      | 3,166    | 10      | 2,660    | 8                               | 1,341    | 8       | 1,373    | 8       | 1,360    |
| Communications                                     |               |          |         |          |         |          |                            |          |         |          |         |          |                                 |          |         |          |         |          |
| 3100 Visitor Info & Associates Reception Ctr       | 16            | 1,175    | 16      | 1,176    | 16      | 1,176    | 0                          | 0        | 0       | 0        | 0       | 0        | 0                               | 0        | 0       | 0        | 0       | 0        |
| 6500 Office of Public Affairs                      | 6             | 1,204    | 6       | 1,066    | 6       | 1,066    | 0                          | 0        | 0       | 0        | 0       | 0        | 0                               | 0        | 0       | 0        | 0       | 0        |
| Subtotal, Communications                           | 22            | 2,379    | 22      | 2,242    | 22      | 2,242    | 0                          | 0        | 0       | 0        | 0       | 0        | 0                               | 0        | 0       | 0        | 0       | 0        |
| Other Program Support                              |               |          |         |          |         |          |                            |          |         |          |         |          |                                 |          |         |          |         |          |
| 3700 Museum Support Center                         | 0             | 0        | 0       | 0        | 0       | 0        | 0                          | 0        | 0       | 0        | 0       | 0        | 0                               | 0        | 0       | 0        | 0       | 0        |
| 7200 Office of Exhibits Central                    | 3             | 265      | 2       | 232      | 1       | 175      | 0                          | 0        | 0       | 10       | 0       | 40       | 0                               | 0        | 0       | 1        | 0       | 0        |
| 1700 Smithsonian Institution Archives              | 2             | 140      | 2       | 140      | 2       | 140      | 1                          | 171      | 1       | 181      | 1       | 186      | 0                               | 0        | 0       | 0        | 0       | 0        |
| 6300 Smithsonian Institution Libraries             | 11            | 962      | 10      | 937      | 10      | 920      | 1                          | 488      | 0       | 2,081    | 0       | 471      | 0                               | 0        | 0       | 0        | 0       | 0        |
| Subtotal, Other Program Support                    | 16            | 1,367    | 14      | 1,309    | 13      | 1,235    | 2                          | 659      | 1       | 2,272    | 1       | 697      | 0                               | 0        | 0       | 1        | 0       | 0        |
| Administration                                     | 176           | 25,268   | 202     | 25,841   | 201     | 25,753   | 2                          | 850      | 1       | 1,495    | 1       | 422      | 0                               | 0        | 0       | 0        | 0       | 0        |
| Facilities Services                                |               |          |         |          |         |          |                            |          |         |          |         |          |                                 |          |         |          |         |          |
| Facilities Maintenance                             | 0             | 418      | 0       | 400      | 0       | 400      | 0                          | 0        | 0       | 52       | 0       | 16       | 0                               | 0        | 0       | 0        | 0       | 0        |
| Facilities Operations, Security and Support + Rent | 19            | 4,704    | 19      | 4,498    | 19      | 5,055    | 5                          | 309      | 5       | 280      | 5       | 285      | 0                               | 0        | 0       | 0        | 0       | 0        |
| Subtotal, Facilities Services                      | 19            | 5,122    | 19      | 4,898    | 19      | 5,455    | 5                          | 309      | 5       | 332      | 5       | 301      | 0                               | 0        | 0       | 0        | 0       | 0        |
| Total Smithsonian                                  | 529           | 75,587   | 541     | 75,574   | 540     | 70,333   | 358                        | 83,438   | 347     | 106,933  | 290     | 74,363   | 418                             | 93,263   | 428     | 93,032   | 430     | 91,389   |







SMITHSONIAN INSTITUTION LIBRARIES



3 9088 01680 3959